CORE Cardiovascular Disease Outreach, Resources and Epidemiology PROGRAM

Report Number 2

Deaths from Heart Disease and Stroke in California Cities



The Local Burden

OF CARDIOVASCULAR DISEASE:

Deaths from Heart Disease and Stroke in California Cities

CARDIOVASCULAR DISEASE OUTREACH, RESOURCES AND EPIDEMIOLOGY (CORE) PROGRAM

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

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Highlights

Forty-two percent of all deaths in California were attributable to cardiovascular diseases (CVD) for the three-year period of 1989-1991.

Among CVD deaths, 70% were due either to ischemic heart disease (IHD) or cerebrovascular disease (stroke) (Table 1).

ISCHEMIC HEART DISEASE (IHD)

- ♥ Forty of 245 cities and places, or 15%, have significantly elevated death rates, compared to the state rate for IHD. By gender, 28 (11%) cities have high death rates for males, while 29 (12%) cities have high rates for females.
- ▼ There is more than a four-fold difference between the place with the highest IHD death rate (Citrus Heights, Sacramento County) compared to the city with the lowest death rate (South Lake Tahoe, El Dorado County).
- ▼ For males, there is a more than five-fold difference between the place with the highest CVD death rate (Citrus Heights, Sacramento County) compared to the city with the lowest death rate (South Lake Tahoe, Eldorado County).
- ♥ For females, there is more than a five-fold difference between the city with the highest IHD death rate (Fontana, San Bernardino County) compared to the city with the lowest death rate (Dana Point, Orange County).

CEREBROVASCULAR DISEASE (STROKE)

- ♥ Eleven of the 245 (5%) cities have significantly different stroke death rates from the state rate for either males or females.
- ◆ Among the eleven cities, four (36%) have significantly elevated stroke mortality rates for both males and females.
- ▼ There is almost a three-fold difference between the city with the highest stroke death rate (Yucaipa, San Bernardino County) compared to the city with the lowest rate (Monterey Park, Los Angeles County).
- ♥ For males, Santa Barbara in Santa Barbara County has a 45% higher death rate than the city with the lowest death rate, Sacramento in Sacramento County.
- ♥ For females, there is almost a three-fold difference between the city with the highest death rate (Danville, Contra Costa County) compared to the city with the lowest death rate (Dana Point, Orange County).

Introduction

"...It is both

possible and

desirable to

accelerate the

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IHD mortality..."

Cardiovascular diseases (CVD), including ischemic heart disease (IHD) and cerebrovascular disease (stroke), kill far more people per year than any other cause of death. The good news: IHD death rates have declined almost 50% since 1972. The bad news: IHD and stroke, combined, still pose an epidemic problem. In 1992, in California, 86,545 people died from some form of CVD, accounting for 40% of all deaths.

A recent report by the Task Force on Research in Epidemiology and Prevention of the Cardiovascular Diseases clearly identifies the magnitude of the problem of CVD. According to the report, "...it is both possible and desirable to accelerate the rates of decline in IHD mortality in all ethnic and socioeconomic groups in the United States." The Task Force claims that "By effectively applying available scientific knowledge, it would be possible to accelerate the rate of decline in IHD mortality to about 6% per year, yielding an overall reduction in IHD mortality of almost 50% in 10 years.(1)" For a disease that costs the State of California an estimated \$14.1 billion a year, that translates into impressive financial savings.

For the first time, this report uses vital statistics data to calculate age- and race-adjusted IHD and stroke death rates for cities and places with a population of 20,000 or more. It is our hope that the findings will be used to guide the distribution of limited funds and other resources to those communities experiencing excess mortality from heart disease or stroke.

MORTALITY DATA

Mortality data were compiled from the death record statistical master tapes of the California Department of Health Services. Health Data and Statistics Branch, Health Demographics Section. Cause of death on the tapes was coded according to the International Classification of Diseases, Ninth Revision (ICD-9). Mortality data were generated for deaths among persons who were residents of California at the time of death and with the ICD-9 codes 410 – 414 for IHD and 430 – 438 for stroke. The underlying cause of death was used to define the cause of death. Deaths were aggregated over the three-year period, 1989-1991, for Californians who resided in cities with a population size of 20,000 or more. The 1990 California census population was used as the reference population and the direct method was used to standardize the mortality rates.

POPULATION DATA

Population data by zip code were obtained for the year of 1990 from the California Department of Finance, Population Research Unit. The aggregated population size for the three-year period of 1989-1991 was estimated by multiplying the 1990 population size by three.

The population data for California zip codes does not separate Hispanics from other race/ethnic groups. Therefore, three race/ethnic groups were used in the analysis (see Appendix B for more details).

CITY DEFINITION

To define cities we used the method developed by the Human Population Laboratory, California Department of Health and Services (3). Census place codes were used to define city boundaries for the death counts (numerator) when calculating the mortality rates. The population size (denominator) was calculated by assigning zip codes to the appropriate census place codes for the corresponding city boundary.

STATISTICAL METHODS

We calculated ratios of age- and race-adjusted gender-specific rates for each city relative to the adjusted gender-specific rates for the entire State. We used an approximate large sample statistical test described by Flanders to evaluate whether the ratios were significantly different from one (2). This test indicates whether a city has a significantly higher or lower mortality rate compared to the California state rate. Mortality rates are expressed as numbers of deaths per 100,000 people.

Maps 1-19 show cities, for both IHD and stroke, with significantly higher or lower age- and race-adjusted mortality rates by gender, relative to the age- and race-adjusted state mortality rates.

Results

Cardiovascular
diseases accounted
for 42 percent of
all deaths in
California...

STATEWIDE MORTALITY RATES

Cardiovascular diseases accounted for 42 percent of all deaths in California for the three-year period of 1989-1991. Table 1 shows that among 268,185 CVD deaths, seventy percent were due to IHD (52.3%) and stroke (17.4%).

As expected, the mortality rates for both IHD and stroke increases with age across all race/ethnic groups. Excluding the 75 year or older age group, blacks have significantly higher mortality rates compared to whites and the group designated as "other."

Figures 1-3 and 4-6, in Appendix A, show the 95% confidence intervals for the ageand race-specific statewide mortality rates for IHD and stroke. For IHD, males have significantly higher death rates compared to females, across all age and race groups, except for aged 75 years or older. For stroke, there are no consistent patterns between the genders for age and race groups presented. Figures 7 and 8, in Appendix A, show the 95% confidence intervals for the age-adjusted statewide IHD and stroke mortality rates by gender and race/ethnicity. For IHD, males have significantly higher age-adjusted death rates compared to females for all race/ethnic groups. For both males and females, blacks have the highest rate while whites have the lowest rate. For stroke, there are no significant differences in death rates between genders for any of the race/ethnic groups. However, there are substantially higher stroke age-adjusted mortality rates for black males and black females compared to white males and females. The rate for black men is 58% higher than the rate for white men. For black women, the rate is 42% higher compared to the rate for white women.

TABLE 1: DEATHS FROM ISCHEMIC HEART DISEASE AND CEREBROVASCULAR DISEASE IN CALIFORNIA, 1989-1991

	ISCHEMIC HEART DISEASE ¹	CEREBROVASCULAR DISEASE ²	Total of Ischemic Heart Disease and Cerebrovascular Disease
Male	70,509	18,389	88,898
Female	69,658	28,227	97,885
Total	140,167	46,616	186,783
Percent of Total			
Cardiovascular Dea		17.4	69.6

^{1 (}ICD-9 codes 410-414)

² (ICD-9 codes 430-438)

³ The total number of cardiovascular deaths (ICD-9 codes 390-459) in California from 1989-1991 is 268,185.

MORTALITY RATES BY CITY

Table 2: California Cities With the Significantly Highest IHD Mortality Rates by Gender, 1989-1991

M A L	E	F E M A	A L E	T O T A	L
CITY	RATE	CITY	RATE	CITY	RATE
1. Citrus Heights	415.96	1. Fontana	233.47	1. Citrus Heights	283.94
2. Maywood	383.30	2. Whittier	225.92	2. Whittier	272.92
3. Delano	354.13	3. Banning	219.56	3. Maywood	266.05
4. Barstow	339.25	4. Perris	210.73	4. Riverside	256.45
5. Whittier	339.09	5. Riverside	210.33	5. Montclair	253.97

Rates are number of deaths for 100,000 persons per year and are age- and race- adjusted.

TABLE 3: CALIFORNIA CITIES WITH THE SIGNIFICANTLY HIGHEST STROKE
MORTALITY RATES BY GENDER, 1989-1991

M A L	E	F E M A	L E	T O T A L	-
CITY	RATE	CITY	RATE	CITY	RATE
1. Santa Barbara	91.76	1. Danville	97.22	1. Yucaipa	90.87
2. Anitoch	90.47	2. Redwood City	95.59	2. Danville	89.54
3. Whittier	86.41	3. Santa Barbara	86.24	3. Santa Barbara	88.23
4. Redlands	83.77	4. Whittier	73.05	4. Redwood City	86.97
5. Riverside	73.58	5. Riverside	68.87	5. Whittier	79.29

Rates are number of deaths for 100,000 persons per year and are age- and race- adjusted.

Table 2 shows the California cities with the five highest mortality rates for IHD. Table 3 presents similar information for stroke. Whittier in Los Angeles County has high mortality rates for both IHD and stroke and for both males and females. Similarly, Riverside in Riverside County has high stroke mortality rates for males and females. Table 4, on pages 6-7, provides a comprehensive list of all cities with significantly higher or lower mortality rates compared to the state rate.

Map 1, on page 9, shows the State of California with high and low rate cities highlighted for IHD. There is much geographical variation within the State for IHD mortality. Most of the cities with significantly elevated mortality rates are located on the borders of Los Angeles, Orange, Riverside and San Bernardino Counties. Map 1 also shows that cities with significantly lower mortality rates are located in the San Francisco Bay area and along the coast of San Diego County.

For IHD, sixty-eight of 245 (28%) cities have significantly higher or lower mortality rates than the state rate, for either males or females. Among these sixty-eight cities and places, the highest mortality rate for males (Citrus Heights, 415.96) is more than five times that of the lowest (South Lake Tahoe, 81.16); the highest mortality rate for females (Fontana, 233.47) is more than eight times that of the lowest (Dana Point, 44.02). Twenty-eight (11%) cities for males and twenty-nine (12%) cities for females have mortality rates that are significantly higher than the state rate.

Map 14, page 61, shows the State of California with high and low rate cities highlighted for stroke. Mortality rates significantly differ from the state rate for eleven out of 245 (4.5%) cities for either males or females. Among these eleven cities, six have higher adjusted mortality rates for males, ranging from 63.25 to 91.76, than the state rate; and, nine cities have significantly higher or lower rates than the state rate for females.

Results

Table 4 Age- and Race-Adjusted Mortality Rates for IHD and Stroke by Gender for Cities that Differ from the State Rate, 1989-1991

CITY	COLINITY	MALE	I H D	TOTAL		TROK	
CITY Anaheim	COUNTY	MALE	FEMALE H	TOTAL H	MALE	FEMALE	TOTAL
	Orange	Н	П	Н	- 11		
Antioch	Contra Costa		- 11	- 11	Н		
Bakersfield	Kern	Н	Н	H			
Banning	Riverside		Н	Н			
Barstow	San Bernardino	Н		Н			
Bellflower	Los Angeles		Н	Н			
Berkeley	Alameda	L	L	L			
Buena Park	Orange			Н			
Camarillo	Ventura	L	L	L			L
Carlsbad	San Diego		L	L			
Carson	Los Angeles			Н			
Citrus Heights	Sacramento	Н		Н			
Colton	San Bernardino	Н	Н	Н			
Corona	Riverside	Н		Н			
Coronado	San Diego	L					
Daly City	San Mateo		L				
Dana Point	Orange		L				
Danville	Contra Costa					Н	Н
Davis	Yolo		L	L			
Delano	Kern	Н					
Downey	Los Angeles					L	
El Cerrito	Contra Costa	L	L	L			
El Monte	Los Angeles		Н	Н			
Fallbrook	San Diego	L		L			
Fontana	San Bernardino	Н	Н	Н			
Fullerton	Orange		Н	Н			
Garden Grove	Orange		Н	Н			
Gilroy	Santa Clara	Н					
Hesperia	San Bernardino	Н	Н	Н			
Inglewood	Los Angeles		Н				
La Habra	Orange			Н			
Laguna Hills	Orange		L				
Long Beach	Los Angeles	Н	Н	Н			
Los Altos	Santa Clara	L		L			
Los Angeles	Los Angeles	_	Н	H		L	
Madera	Madera		•••	H		_	_
Maywood	Los Angeles	Н		H			
Menlo Park	San Mateo	- 11	L	Ľ			
Montclair	San Bernardino	Н	Н	Н			
Monterey	Monterey	11	L	L			
Monterey Park	Los Angeles		L	L			
Mountain View	Santa Clara		L	L			L
Norwalk			Н	Н			
I VUI VVAIN	Los Angeles		IT	11			

(Continued

Notes: L Place has significantly lower rate than state rate with an overall significance level of 0.10.

H Place has significantly higher rate than state rate with an overall significance level of 0.10.

Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program.

California Department of Health Services and University of California, San Francisco.

Table 4 Age- and Race-Adjusted Mortality Rates for IHD and Stroke by Gender for Cities that Differ from the State Rate, 1989-1991

CITY	COUNTY	MALE	I H D	TOTAL		R O K	
Oakland	Alameda	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
Oceanside				1			П
Ontario	San Diego San Bernardino	Н	L	L H			
	Ventura	П	П	L			
Oxnard				L		1	
Palm Desert	Riverside		- 11			L	
Palmdale	Los Angeles	- 1	Н	1			
Palo Alto	Santa Clara	L	L	L			
Paradise	Butte			L			
Paramount	Los Angeles	Н		Н			
Perris	Riverside		Н	Н			
Pomona	Los Angeles	Н	Н	Н			
Porterville	Tulare	Н	Н	Н			
Rancho Cucamunga			L	L			
Redding	Shasta		L				
Redlands	San Bernardino	Н	Н	Н	Н		Н
Redwood City	San Mateo	Н		Н		Н	Н
Rialto	San Bernardino	Н	Н	Н			
Riverside	Riverside	Н	Н	Н	Н	Н	Н
Sacramento	Sacramento	Н		Н	Н	Н	Н
Salinas	Monterey		L	L			
San Bernardino	San Bernardino	Н	Н	Н			
San Diego	San Diego	L	L	L			
San Dimas	Los Angeles		Н	Н			
San Francisco	San Francisco	L	L	L			
San Jose	Santa Clara	L	L	L			
San Mateo	San Mateo		L	L			
Santa Ana	Orange		Н	Н			
Santa Barbara	Santa Barbara				Н	Н	Н
Santa Maria	Santa Barbara	L	L	L			
Santa Rosa	Sonoma	L		L			
South Gate	Los Angeles			Н			
South Lake Tahoe	El Dorado	L	L	L			
Stockton	San Joaquin	Н	H	Н			
Sunnyvale	Santa Clara	I	İ	L			
Thousand Oaks	Ventura	_		Ī			
Tulare	Tulare	Н	Н	Н			
Victorville	San Bernardino	Н		Н			
Walnut Creek	Contra Costa	Ľ	L	Ľ			
Watsonville	Santa Cruz			L			
West Sacramento	Yolo			Н			
Whittier	Los Angeles	Н	Н	Н	Н	Н	Н
Yucaipa	San Bernardino	Н	11	11	11	11	Н
ι ασαιρα	Jan Demardino	- 11					11

Notes: L Place has significantly lower rate than state rate with an overall significance level of 0.10.

H Place has significantly higher rate than state rate with an overall significance level of 0.10.

Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program.

California Department of Health Services and University of California, San Francisco.

Discussion

For the first time,
the magnitude of
this mortality burden
can be seen where it
strikes the hardest
– at the local level.

For the first time data is presented on the geographic variation of IHD and stroke deaths among California cities and places. In this report the magnitude of this mortality burden of CVD can be seen where it strikes the hardest – at the local level.

In general, the majority of cities with excess IHD deaths are clustered in the southern part of California along the Los Angeles coast and inland. Cities with excess stroke mortality are centered in two locations, from Redwood City inland to Sacramento and in southern California from Santa Barbara to the Palm Desert.

Emphasizing the unequal burden of deaths, there is more than a four-fold difference between the place with the highest IHD death rate (Citrus Heights, Sacramento County) compared to the city with the lowest death rate (South Lake Tahoe, El Dorado County). Similarly for stroke, there is a nearly three-fold difference between the city with the highest death rate (Yucaipa, San Bernardino County) and the city with the lowest rate (Monterey Park, Los Angeles County).

Some caution is necessary when interpreting the mortality rates for cities and places with relatively small populations. While an effort was made to minimize the potential overestimation of the mortality rate, as explained in Appendix C, small inaccuracies in the estimate may

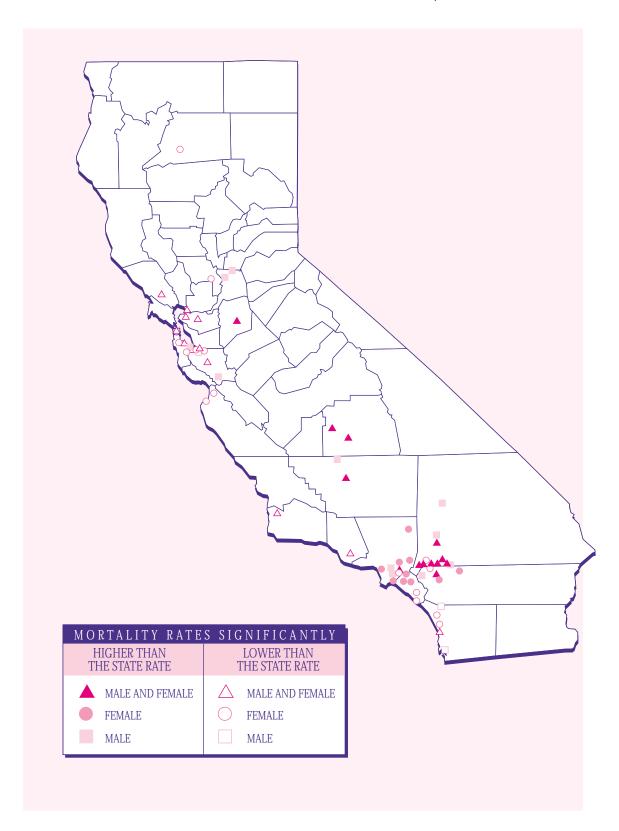
still exist. However, in cities and places with larger population sizes, such distortions should be minor.

Unfortunately, the data in this report do not provide information on why some cities have excessively high CVD death rates, while other cities have lower rates. However, previous research has identified CVD risk factors which may be implicated. They are:

- Behavioral risk factors (e.g., high blood pressure, smoking, physical inactivity);
- Lower socioeconomic status:
- Limited access to health care (e.g., fewer physicians and clinic per capita); and.
- Environmental factors (e.g., limited selection of low-fat foods).

Applications of the findings from this report may be found in the CORE document, "The Local Burden of Cardiovascular Disease—Summary and Recommendations." While further research is being conducted to investigate the reasons for the excess deaths in certain cities and places, one fact remains. We have an epidemic in our midst and we are now able to identify, specifically, those communities in California with the highest death rates from CVD and the greatest need for prevention.

Map 1: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in California, 1989-1991



NOTHERN CALIFORNIA COUNTIES

Map 2: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in Northern California Counties, 1989-1991



NOTHERN CALIFORNIA COUNTIES

TABLE 5: IHD DEATHS BY CITY FOR BUTTE, HUMBOLDT AND SHASTA COUNTIES, 1989-1991

	PLACE	M A	PERCENT OF ALL DEATHS	F E M	PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS
	CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7
Butte C	ounty						
	Chico	158	18.6	146	18.7	304	18.7
	Paradise	127	19.0	142	20.9	269	20.0
Humbol	ldt County						
	Eureka	149	21.8	121	19.1	270	20.5
Shasta (<i>County</i> Redding	279	22.4	188	17.2	467	19.9

NORTHERN CALIFORNIA COUNTIES

Table 6: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For IHD by City for Butte, Humboldt and Shasta Counties, 1989-1991

		,						
		MALE		F E M <i>A</i>	A L E	T O T A L		
		MORTALITY	RELATIVE	MORTALITY	RELATIVE	MORTALITY	RELATIVE	
	PLACE	RATE	RATE	RATE	RATE	RATE	RATE	
	CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00	
Butte Co	ounty							
	Chico	156.71	0.79	98.02	0.75	119.79	0.75	
	Paradise	133.19	0.68	97.98	0.75	114.03	0.72*	
Humbol	dt County							
	Eureka	229.72	1.16	103.56	0.80	157.11	0.99	
Shasta (County							
	Redding	203.36	1.03	90.67	0.70*	136.98	0.86	

Notes: Relative rate is ratio of place to statewide rate.

Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program.

California Department of Health Services and University of California, San Francisco.

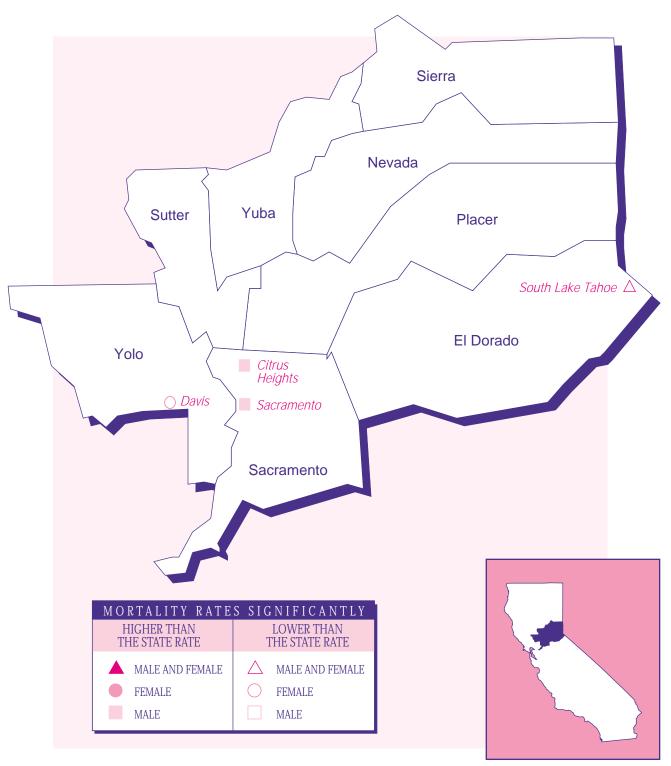
^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

SACRAMENTO AREA COUNTIES

Map 3: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in Sacramento Area Counties, 1989-1991



SACRAMENTO AREA COUNTIES

TABLE 7: IHD DEATHS BY CITY FOR EL DORADO, PLACER, SACRAMENTO, SUTTER AND YOLO COUNTIES, 1989-1991

PLACE	M /	A L E PERCENT OF ALL DEATHS	F E N	A L E PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS	
CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7	
El Dorado County							
South Lake Tahoe	34	16.8	20	12.0	54	14.7	
Placer County							
Roseville	119	18.4	141	22.2	260	20.3	
Sacramento County							
Carmichael	175	22.6	182	21.1	357	24.5	
Citrus Heights	318	22.1	256	19.1	574	20.7	
Folsom	59	25.1	52	22.2	111	23.7	
North Highlands	62	16.1	57	17.3	119	16.7	
Rancho Cordova	60	18.1	69	19.8	129	18.9	
Sacramento	1,467	18.5	1,462	20.6	2,929	19.5	
Sutter County							
Yuba City	152	22.8	118	19.2	270	21.1	
Yolo County							
Davis	48	15.1	38	13.7	86	14.4	
West Sacramento	124	22.3	97	24.2	221	23.1	
Woodland	141	25.8	137	27.5	278	26.6	

SACRAMENTO AREA COUNTIES

TABLE 8: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR IHD BY CITY FOR EL DORADO, PLACER, SACRAMENTO, SUTTER AND YOLO COUNTIES, 1989-1991

PLACE	M A MORTALITY RATE	L E RELATIVE RATE	F E M MORTALITY RATE	A L E RELATIVE RATE	T O MORTALITY RATE	T A L RELATIVE RATE
CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00
El Dorado County						
South Lake Tahoe	81.16	0.41*	50.03	0.38*	66.19	0.42*
Placer County						
Roseville	188.29	0.95	122.14	0.94	146.02	0.92
Sacramento County						
Carmichael	258.67	1.31	126.05	0.97	167.32	1.05
Citrus Heights	415.96	2.11**	208.23	1.60	283.94	1.78**
Folsom	188.71	0.96	133.30	1.02	169.64	1.07
North Highlands	173.31	0.88	170.10	1.31	173.58	1.09
Rancho Cordova	141.95	0.72	134.03	1.03	132.24	0.83
Sacramento	225.89	1.15**	140.29	1.08	176.60	1.11**
Sutter County						
Yuba City	225.20	1.14	106.25	0.82	152.29	0.96
Yolo County						
Davis	139.32	0.71	67.47	0.52*	94.92	0.60*
West Sacramento	273.43	1.39	167.43	1.29	217.42	1.37**
Woodland	247.58	1.26	141.12	1.08	186.16	1.17

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

NORTH BAY AREA COUNTIES

Map 4: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in North Bay Area Counties, 1989-1991



NORTH BAY AREA COUNTIES

TABLE 9: IHD DEATHS BY CITY FOR NAPA, SOLANO AND SONOMA COUNTIES, 1989-1991

DI A OF		A L E PERCENT		M A L E PERCENT (PERCENT OF
PLACE	NUMBE	R ALL DEAT	THS NUMBER	ALL DEATI	HS NUMBER	ALL DEATHS
CALIFO	DRNIA 70,50	9 20.8	69,660	22.8	140,169	21.7
Napa County						
Napa	22	1 21.5	212	19.4	433	20.4
Solano County						
Benicia	4	9 23.7	32	16.8	81	20.4
Fairfield	d 10	8 17.8	85	14.9	193	16.4
Suisun	City 4	3 23.1	16	12.0	59	18.5
Vacavil	le 11	5 17.6	88	15.8	203	16.8
Vallejo	27	1 19.2	241	18.2	512	18.7
Sonoma County	/					
Petalun	na 12	7 21.4	128	22.0	255	21.7
Santa R	Rosa 52	9 20.8	520	20.3	1,049	20.6

NORTH BAY AREA COUNTIES

TABLE 10: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR IHD BY CITY FOR NAPA, SOLANO AND SONOMA COUNTIES, 1989-1991

		M A L E						
				F E M	A L E	T O T A L		
	PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
	CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00	
Napa (County							
	Napa	177.77	0.90	125.97	0.97	149.58	0.94	
Solano	County							
	Benicia	201.32	1.02	106.46	0.82	149.65	0.94	
	Fairfield	168.40	0.85	110.47	0.85	136.80	0.86	
	Suisun City	227.01	1.15	63.50	0.49	132.31	0.83	
	Vacaville	158.01	0.80	105.13	0.81	130.43	0.82	
	Vallejo	194.83	0.99	124.60	0.96	154.47	0.97	
Sonom	na County							
	Petaluma	170.28	0.86	108.19	0.83	131.27	0.83	
	Santa Rosa	163.11	0.83*	115.54	0.89*	133.48	0.84*	

Notes:

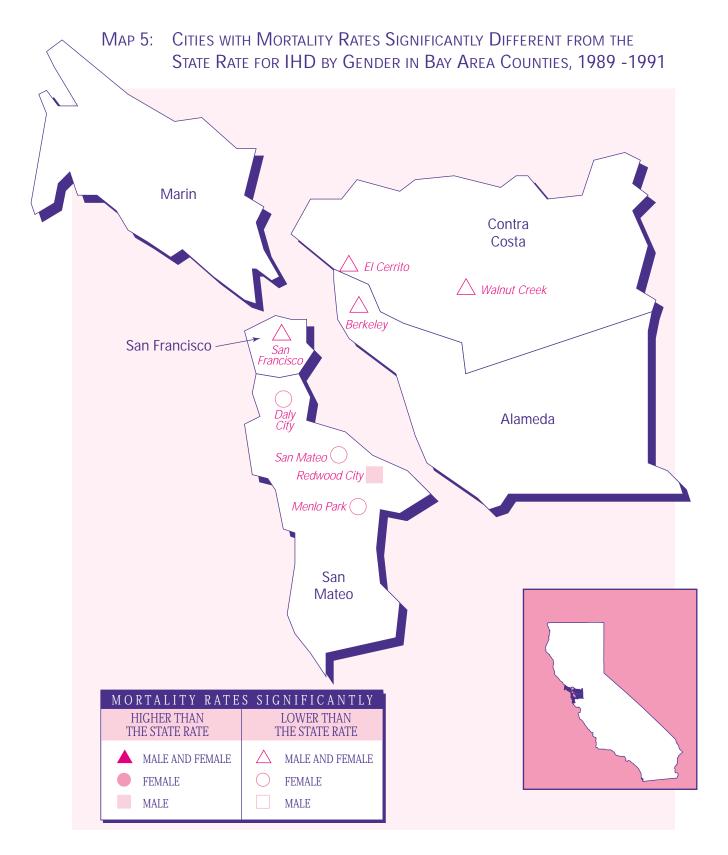
Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

BAY AREA COUNTIES



BAY AREA COUNTIES

TABLE 11: IHD DEATHS BY CITY FOR ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO AND SAN MATEO COUNTIES, 1989-1991

AND OAN MAI								
	M A	A L E PERCENT OF	F E M	A L E PERCENT OF	Τ Ο	T A L PERCENT OF		
PLACE	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS		
CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7		
Alameda County								
Alameda	206	24.9	220	23.4	426	24.1		
Berkeley	196	16.8	220	16.9	416	16.9		
Castro Valley	138	23.0	152	24.8	290	23.9		
Dublin	23	21.5	12	15.0	35	18.7		
Fremont	292	21.5	208	17.7	500	19.8		
Hayward	354	19.5	383	22.6	737	21.0		
Livermore	106	22.6	89	19.0	195	20.8		
Newark	74	27.8	51	21.6	125	24.9		
Oakland	968	16.1	1,078	20.0	2,046	17.9		
Pleasanton	66	20.6	55	17.3	121	19.0		
San Leandro	309	22.5	282	20.7	591	21.6		
Union City	70	16.6	76	21.0	146	18.6		
Contra Costa County								
Antioch	94	15.9	116	21.9	210	18.8		
Concord	191	17.4	210	19.1	401	18.2		
Danville	59	20.1	50	16.2	109	18.1		
El Cerrito	73	20.8	55	15.9	128	18.3		
Lafayette	51	19.8	48	19.0	99	19.4		
Martinez	85	17.2	78	16.9	163	17.1		
Pittsburg	132	18.2	109	18.0	241	18.1		
Pleasant Hill	63	20.6	75	20.9	138	20.8		
Richmond	329	16.5	372	21.1	701	18.7		
San Ramon	31	18.2	19	12.9	50	15.8		
Walnut Creek	252	21.5	271	19.2	523	20.3		
Marin County								
Novato	108	19.4	99	18.6	207	19.0		
San Rafael	158	21.2	176	20.8	334	21.0		
San Francisco County								
San Francisco	1,944	13.4	2,015	19.5	3,959	16.0		
San Mateo County								
Belmont	82	33.5	44	20.5	126	27.4		
Burlingame	134	24.6	133	20.5	267	22.4		
Daly City	386	23.4	289	20.4	675	22.0		
Foster City	53	27.7	26	12.3	79	19.7		
Menlo Park	106	22.8	88	15.1	194	18.5		
Millbrae	71	23.8	74	22.4	145	23.1		
Pacifica	73	21.6	80	25.1	153	23.3		
Redwood City	198	21.0	188	21.2	386	21.1		
San Bruno	89	21.7	76	20.6	165	21.2		
San Carlos	75	22.1	69	18.8	144	20.4		
San Mateo	296	25.3	256	21.3	552	23.3		

BAY AREA COUNTIES

TABLE 12: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR IHD BY CITY FOR ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO AND SAN MATEO COUNTIES, 1989-1991

		,					
		M A	L E	F E M	A L E	T 0 T	A L
	PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
	CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00
Alameda	a County						
	Alameda	214.80	1.09	127.30	0.98	163.51	1.03
	Berkeley	125.51	0.64*	74.05	0.57*	94.74	0.60*
	Castro Valley	267.18	1.35	162.53	1.25	199.61	1.26
	Dublin	244.10	1.24			145.85	0.92
	Fremont	206.20	1.05	111.41	0.86	152.90	0.96
	Hayward	204.57	1.04	147.03	1.13	172.28	1.08
	Livermore	203.73	1.03	113.20	0.87	150.03	0.94
	Newark	265.85	1.35	150.82	1.16	199.36	1.25
	Oakland	180.63	0.92	126.15	0.97	149.42	0.94
	Pleasanton	161.62	0.82	97.26	0.75	126.25	0.79
	San Leandro	196.92	1.00	114.67	0.88	148.37	0.93
	Union City	198.73	1.01	114.44	0.88	140.36	0.88
Contra (Costa County	==					
	Antioch	164.52	0.83	160.37	1.23	160.71	1.01
	Concord	178.39	0.90	111.03	0.85	137.38	0.86
	Danville	167.70	0.85	118.70	0.91	143.07	0.90
	El Cerrito	114.51	0.58*	55.89	0.43*	80.49	0.51*
	Lafayette	132.24	0.67	82.60	0.63	145.23	0.91
	Martinez	153.93	0.78	112.67	0.86	130.37	0.82
	Pittsburg	225.96	1.15	123.95	0.95	166.57	1.05
	Pleasant Hill	167.40	0.85	114.81	0.88	133.25	0.84
	Richmond	201.03	1.02	138.29	1.06	163.42	1.03
	San Ramon	187.30	0.95	88.07	0.68	123.09	0.77
	Walnut Creek	134.42	0.68*	71.15	0.55*	95.92	0.60*
Marin C		100.00	0.07	100.21	0.04	140.07	0.00
	Novato	188.98	0.96	109.31	0.84	148.07	0.93
Con Fron	San Rafael	151.70	0.77	123.76	0.95	128.24	0.81
San Fran	ncisco County	1/0.00	0.0/*	102 (2	0.00*	122.02	0.00*
San Mat	San Francisco teo County	169.99	0.86*	103.63	0.80*	132.03	0.83*
	Belmont	220.14	1.12	114.01	0.88	158.38	1.00
	Burlingame	161.97	0.82	101.18	0.78	126.87	0.80
	Daly City	189.57	0.96	99.68	0.77*	138.46	0.87
	Foster City	226.09	1.15	66.55	0.51	119.28	0.75
	Menlo Park	143.62	0.73	71.55	0.55*	101.26	0.64*
	Millbrae	155.04	0.79	107.92	0.83	127.57	0.80
	Pacifica	233.98	1.19	163.40	1.25	186.43	1.17
	Redwood City	266.98	1.35**	168.61	1.29	210.77	1.33**
	San Bruno	181.39	0.92	134.74	1.03	151.44	0.95
	San Carlos	194.36	0.99	93.53	0.72	125.88	0.79
	San Mateo	186.58	0.95	95.82	0.74*	133.74	0.84*
	-						

Notes: Relative rate is ratio of place to statewide rate.

Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program.

California Department of Health Services and University of California, San Francisco.

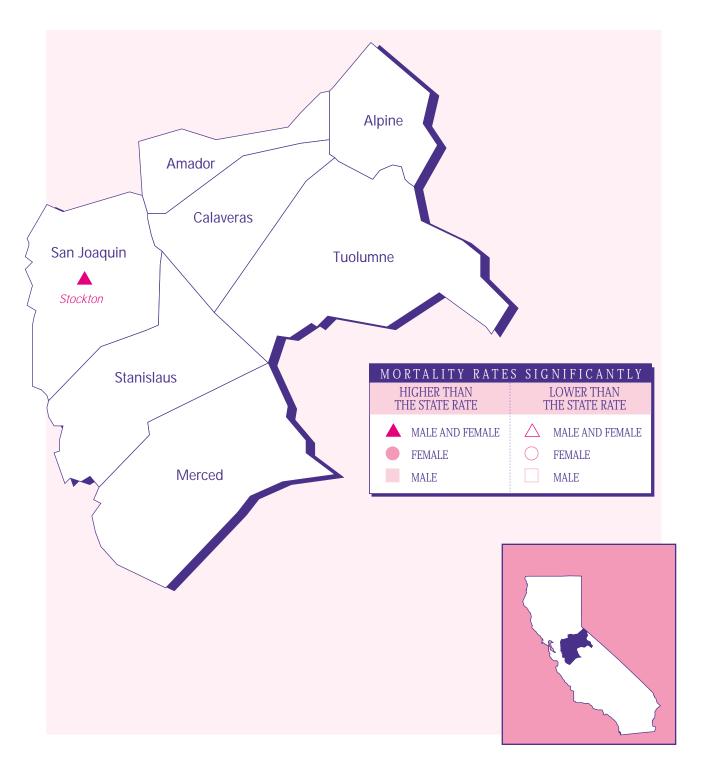
^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

MID CENTRAL COUNTIES

Map 6: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in Mid Central Counties, 1989 -1991



MID CENTRAL COUNTIES

TABLE 13: IHD DEATHS BY CITY FOR MERCED, SAN JOAQUIN AND STANISLAUS COUNTIES, 1989-1991

PLACE	M A	L E PERCENT OF ALL DEATHS	F E M	A L E PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS
CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7
Merced County						
Atwater	40	19.0	39	19.2	79	19.1
Merced	142	19.8	122	18.0	264	18.9
San Joaquin County						
Lodi	203	23.0	215	24.8	418	23.9
Manteca	118	25.4	97	23.3	215	24.4
Stockton	898	23.3	757	24.7	1,655	23.9
Tracy	78	19.1	89	24.1	167	21.4
Stanislaus County						
Ceres	66	20.3	49	18.2	115	19.4
Modesto	514	20.4	449	20.1	963	20.3
Turlock	157	23.6	157	26.0	314	24.7

MID CENTRAL COUNTIES

TABLE 14: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR IHD BY CITY FOR MERCED, SAN JOAQUIN AND STANISLAUS COUNTIES, 1989-1991

	M A	L E	F E M	A L E	T 0 1	T A L	
PLACE	Mortality Rate	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00	
Merced County							
Atwater	247.57	1.26	143.07	1.10	174.75	1.10	
Merced	228.24	1.16	147.69	1.13	184.60	1.16	
San Joaquin County							
Lodi	179.15	0.91	112.91	0.87	140.67	0.88	
Manteca	224.42	1.14	144.81	1.11	179.01	1.13	
Stockton	245.94	1.25**	152.11	1.17**	192.76	1.21**	
Tracy	166.78	0.85	157.56	1.21	159.83	1.01	
Stanislaus County							
Ceres	216.03	1.10	107.11	0.82	153.49	0.97	
Modesto	198.53	1.01	110.96	0.85	148.49	0.93	
Turlock	223.30	1.13	131.53	1.01	169.82	1.07	

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

WEST CENTRAL COUNTIES

Map 7: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in West Central Counties, 1989 -1991



WEST CENTRAL COUNTIES

TABLE 15: IHD DEATHS BY CITY FOR MONTEREY, SAN LUIS OBISPO, SANTA CLARA AND SANTA CRUZ COUNTIES, 1989-1991

M A	L E PERCENT OF ALL DEATHS	F E N	1 A L E PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS	
70,509	20.8	69,660	22.8	140,169	21.7	
73	19.7	68	17.2	141	18.4	
225	17.6	173	15.5	398	16.6	
62	23.8	71	25.9	133	24.9	
131	25.9	91	18.8	222	22.5	
85	22.5	98	22.1	183	22.3	
75	20.4	95	23.8	170	22.2	
83	25.5	63	23.8	146	24.7	
81	19.3	97	19.6	178	19.5	
96	22.2	136	26.8	232	24.7	
58	20.9	54	22.4	112	21.6	
40	16.4	53	22.0	93	19.2	
110	19.2	110	18.4	220	18.8	
149	16.4	150	16.2	299	16.3	
1,200	18.6	1,211	20.2	2,411	19.4	
190	20.9	192	22.1	383	21.5	
75	24.6	73	20.4	148	22.3	
210	19.2	204	19.6	414	19.4	
200	20.7	283	25.0	483	23.0	
104	16.0	107	18.8	211	17.3	
	70,509 73 225 62 131 85 75 83 81 96 58 40 110 149 1,200 190 75 210	NUMBER PERCENT OF ALL DEATHS 70,509 20.8 73 19.7 225 17.6 62 23.8 131 25.9 85 22.5 75 20.4 83 25.5 81 19.3 96 22.2 58 20.9 40 16.4 110 19.2 149 16.4 1,200 18.6 190 20.9 75 24.6 210 19.2	NUMBER PERCENT OF ALL DEATHS NUMBER 70,509 20.8 69,660 73 19.7 68 225 17.6 173 62 23.8 71 131 25.9 91 85 22.5 98 75 20.4 95 83 25.5 63 81 19.3 97 96 22.2 136 58 20.9 54 40 16.4 53 110 19.2 110 149 16.4 150 1,200 18.6 1,211 190 20.9 192 75 24.6 73 210 19.2 204	NUMBER PERCENT OF ALL DEATHS NUMBER PERCENT OF ALL DEATHS 70,509 20.8 69,660 22.8 73 19.7 68 17.2 225 17.6 173 15.5 62 23.8 71 25.9 131 25.9 91 18.8 85 22.5 98 22.1 75 20.4 95 23.8 83 25.5 63 23.8 81 19.3 97 19.6 96 22.2 136 26.8 58 20.9 54 22.4 40 16.4 53 22.0 110 19.2 110 18.4 149 16.4 150 16.2 1,200 18.6 1,211 20.2 190 20.9 192 22.1 75 24.6 73 20.4 210 19.2 204 19.6	NUMBER PERCENT OF ALL DEATHS NUMBER PERCENT OF ALL DEATHS NUMBER 70,509 20.8 69,660 22.8 140,169 73 19.7 68 17.2 141 225 17.6 173 15.5 398 62 23.8 71 25.9 133 131 25.9 91 18.8 222 85 22.5 98 22.1 183 75 20.4 95 23.8 170 83 25.5 63 23.8 146 81 19.3 97 19.6 178 96 22.2 136 26.8 232 58 20.9 54 22.4 112 40 16.4 53 22.0 93 110 19.2 110 18.4 220 149 16.4 150 16.2 299 1,200 18.6 1,211 20.2 2,411	

WEST CENTRAL COUNTIES

Table 16: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For IHD by City for Monterey, San Luis Obispo, Santa Clara and Santa Cruz Counties, 1989-1991

	M A	L E	F E M	A L E	T 0 1	T A L
PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00
Monterey County						
Monterey	148.38	0.75	71.98	0.55*	101.20	0.64*
Salinas	183.27	0.93	94.94	0.73*	132.51	0.83*
San Luis Obispo County						
Atascadero	180.54	0.92	123.22	0.95	145.47	0.91
San Luis Obispo	203.46	1.03	83.27	0.64	135.27	0.85
Santa Clara County						
Campbell	247.90	1.26	123.43	0.95	160.97	1.01
Cupertino	162.51	0.82	125.95	0.97	142.39	0.90
Gilroy	305.94	1.55**	105.76	0.81	165.35	1.04
Los Altos	108.44	0.55*	101.56	0.78	105.29	0.66*
Los Gatos	184.45	0.94	126.79	0.97	151.13	0.95
Milpitas	227.82	1.16	142.26	1.09	176.29	1.11
Morganhill	154.39	0.78	126.45	0.97	136.26	0.86
Mountain View	165.34	0.84	89.19	0.68*	116.32	0.73*
Palo Alto	137.88	0.70*	81.14	0.62*	104.29	0.66*
San Jose	167.01	0.85*	111.90	0.86*	135.19	0.85*
Santa Clara	193.67	0.98	121.86	0.94	152.12	0.96
Saratoga	170.75	0.87	109.01	0.84	136.32	0.86
Sunnyvale	153.76	0.78*	99.20	0.76*	122.71	0.77*
Santa Cruz County						
Santa Cruz	179.95	0.91	124.14	0.95	149.33	0.94
Watsonville	144.39	0.73	114.88	0.88	122.32	0.77*

Notes: Relative rate is ratio of place to statewide rate.

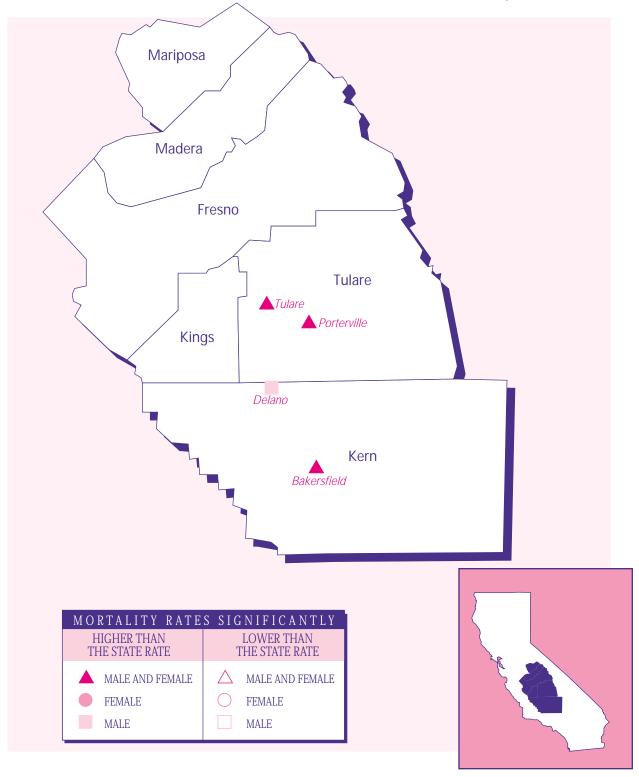
^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

CENTRAL VALLEY COUNTIES

Map 8: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in Central Valley Counties, 1989 -1991



CENTRAL VALLEY COUNTIES

TABLE 17: IHD DEATHS BY CITY FOR FRESNO, KERN, KINGS, MADERA AND TULARE COUNTIES, 1989-1991

		M A	L E	F E	M A L E	T O T A L	
		101 71	PERCENT OF	, ,	PERCENT OF	1 0	PERCENT OF
	PLACE	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS
	CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7
Fresno (County						
	Clovis	105	20.3	102	19.4	207	19.8
	Fresno	1,050	20.3	1,029	22.4	2,079	21.3
Kern Co	ounty						
	Bakersfield	949	24.1	888	26.6	1,837	25.2
	Delano	106	29.8	52	26.0	158	28.4
	Oildale	11	25.6	7	21.9	18	24.0
	Ridgecrest	70	21.0	48	18.0	118	19.7
Kings C	ounty						
	Hanford	120	22.5	109	21.1	229	21.8
Madera	County						
	Madera	162	23.8	138	26.3	300	24.9
Tulare C	County						
	Porterville	216	26.8	209	29.4	425	28.0
	Tulare	173	28.1	153	27.1	326	27.7
	Visalia	219	21.1	212	21.6	431	21.3

CENTRAL VALLEY COUNTIES

Table 18: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For IHD by City for Fresno, Kern, Kings, Madera and Tulare Counties, 1989-1991

		M A I	E	F E M	A L E	T O T	A L
PLACE	1	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
CALIFOR	RNIA	197.22	1.00	130.26	1.00	158.99	1.00
Fresno County							
Clovis		190.57	0.97	117.01	0.90	146.97	0.92
Fresno		207.52	1.05	130.70	1.00	163.29	1.03
Kern County							
Bakersfie	eld	296.63	1.50**	191.42	1.47**	236.61	1.49**
Delano		354.13	1.80**	143.94	1.10	229.96	1.45
Oildale							
Ridgecre	est	199.17	1.01	152.64	1.17	161.36	1.01
Kings County							
Hanford		202.51	1.03	134.38	1.03	161.96	1.02
Madera County							
Madera		241.59	1.22	157.17	1.21	197.33	1.24**
Tulare County							
Portervill	le	273.72	1.39**	176.15	1.35**	218.81	1.38**
Tulare		313.06	1.59**	196.16	1.51**	245.67	1.55**
Visalia		180.32	0.91	122.16	0.94	146.91	0.92

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

SANTA BARBARA AND VENTURA COUNTIES

Map 9: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in Santa Barbara and Ventura Counties, 1989 -1991



SANTA BARBARA AND VENTURA COUNTIES

TABLE 19: IHD DEATHS BY CITY FOR SANTA BARBARA AND VENTURA COUNTIES, 1989-1991

	PLACE	M A	A L E PERCENT OF ALL DEATHS	F E M	I A L E PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS
	CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7
Santa I	Barbara County						
	Lompoc	100	23.8	75	20.1	175	22.0
	Santa Barbara	282	16.9	372	19.1	654	18.1
	Santa Maria	203	20.5	167	17.7	370	19.1
Ventur	a County						
	Camarillo	175	23.3	125	18.2	300	20.9
	Moorpark	30	23.1	18	19.6	48	21.6
	Oxnard	236	18.3	190	17.1	426	17.8
	Port Hueneme	45	20.5	30	16.6	75	18.8
	Santa Paula	247	21.5	232	26.5	479	23.9
	Simi Valley	81	23.3	92	19.8	173	21.5
	Thousand Oaks	151	23.5	129	23.7	280	23.6
	Ventura	202	21.1	210	20.2	412	20.7

SANTA BARBARA AND VENTURA COUNTIES

Table 20: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For IHD by City for Santa Barbara and Ventura Counties, 1989-1991

		M A	L E	F E M	A L E	T O T A L		
	PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
		IVATE	NAIL	NAIL	NAIL		IVAIL	
	CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00	
Santa E	Barbara County							
	Lompoc	180.12	0.91	129.26	0.99	145.99	0.92	
	Santa Barbara	209.95	1.06	146.59	1.13	171.91	1.08	
	Santa Maria	152.16	0.77*	90.03	0.69*	117.19	0.74*	
Ventura	a County							
	Camarillo	137.22	0.70*	82.59	0.63*	107.15	0.67	
	Moorpark	278.93	1.41	107.85	0.83	148.70	0.94	
	Oxnard	162.68	0.82	103.24	0.79	129.98	0.82*	
	Port Hueneme	186.34	0.94	68.56	0.53	115.19	0.72	
	Santa Paula	211.67	1.07	152.84	1.17	177.91	1.12	
	Simi Valley	222.63	1.13	143.42	1.10	173.97	1.09	
	Thousand Oaks	159.50	0.81	104.38	0.80	127.02	0.80*	
	Ventura	187.84	0.95	100.35	0.77	135.23	0.85	

Notes: Relative rate is ratio of place to statewide rate.

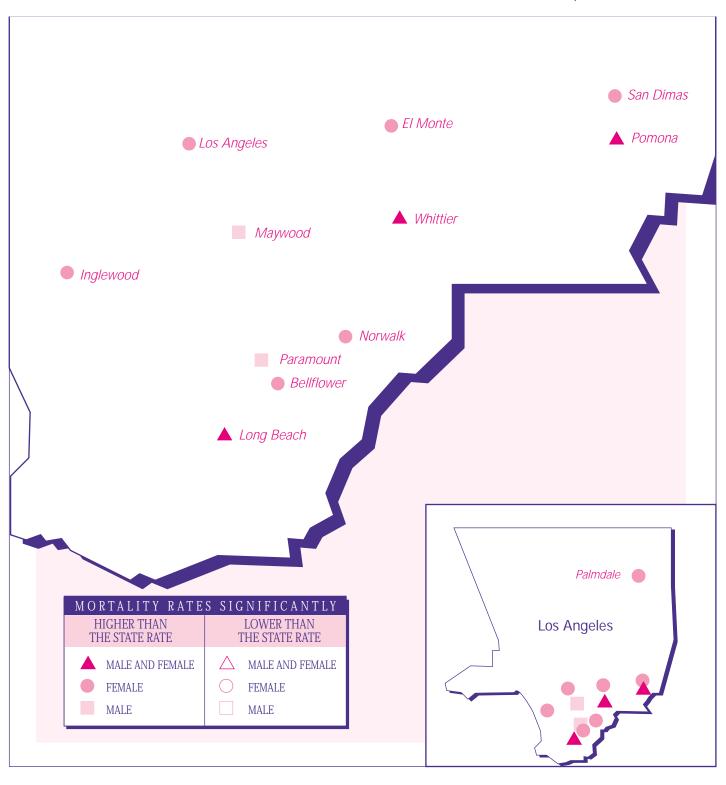
^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[,] Insufficient data was available to calculate rate.

LOS ANGELES COUNTY

Map 10: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in Los Angeles County, 1989 -1991



LOS ANGELES COUNTY

TABLE 21: IHD DEATHS BY CITY FOR LOS ANGELES COUNTY, 1989-1991

PLACE NUMBER PERCENT OF ALL DEATHS NUMBER NUMBER PERCENT OF ALL DEATHS NUMBER NU								
PLACE NUMBER ALL DEATHS NUMBER ALL DEATHS ALL DEATHS			M A		F E M		T O	
CALIFORNIA 70,509 20.8 69,660 22.8 140,169 21.7 Los Angeles County Agoura Hills 17 16.7 11 13.6 28 15.3 Alhambra 205 23.9 356 31.4 561 28.2 Altadena 66 16.7 121 27.1 187 22.2 Arcadia 197 27.1 243 29.9 440 28.5 Azusa 75 16.1 91 23.8 166 19.6 Baldwin Park 88 16.5 105 23.4 193 19.6 Bell 113 16.6 130 22.3 243 19.2 Bellflower 162 21.1 217 27.1 379 24.1 Beverly Hills 128 242 127 21.5 255 22.8 Burbank 305 23.7 303 24.4 608 24.0 Carson 181 19.7		PLACE	NUMBER		NUMBER		NUMBER	
Agoura Hills 17 16.7 11 13.6 28 15.3 Alhambra 205 23.9 356 31.4 561 28.2 Altadena 66 16.7 121 27.1 187 22.2 Arcadia 197 27.1 243 29.9 440 28.5 Azusa 75 16.1 91 23.8 166 19.6 Baldwin Park 88 16.5 105 23.4 193 19.6 Bell 113 16.6 130 22.3 243 19.2 Bellflower 162 21.1 217 27.1 379 24.1 Beverly Hills 128 24.2 127 27.1 379 24.1 Beverly Hills 128 24.2 127 27.5 255 22.8 Burbank 305 23.7 303 24.4 608 24.0 Carson 181 19.7 165 23.4 346 21.3 Cerritos 105 21.7 114 28.6 219 24.9 Claremont 82 25.7 116 27.2 198 26.6 Compton 194 12.9 205 18.5 399 15.3 Covina 150 21.2 181 24.1 331 22.7 Culver City 121 22.0 137 25.0 258 23.5 Diamond Bar 100 24.6 68 18.9 168 21.9 Downey 281 23.8 259 24.4 540 24.1 Duarte 60 23.6 104 29.0 164 26.8 El Monte 188 17.5 241 26.1 429 21.5 Gardena 184 19.8 180 24.1 364 21.7 Glendale 533 23.2 682 25.9 1,215 24.6 Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		CALIFORNIA						
Agoura Hills 17 16.7 11 13.6 28 15.3 Alhambra 205 23.9 356 31.4 561 28.2 Altadena 66 16.7 121 27.1 187 22.2 Arcadia 197 27.1 243 29.9 440 28.5 Azusa 75 16.1 91 23.8 166 19.6 Baldwin Park 88 16.5 105 23.4 193 19.6 Bell 113 16.6 130 22.3 243 19.2 Bellflower 162 21.1 217 27.1 379 24.1 Beverly Hills 128 24.2 127 21.5 255 22.8 Burbank 305 23.7 303 24.4 608 24.0 Carson 181 19.7 165 23.4 346 21.3 Cerritos 105 21.7 114 28.6			. 0,007	20.0	0.7000			
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Covina 150 21.2 181 24.1 331 22.7 Culver City 121 22.0 137 25.0 258 23.5 Diamond Bar 100 24.6 68 18.9 168 21.9 Downey 281 23.8 259 24.4 540 24.1 Duarte 60 23.6 104 29.0 164 26.8 El Monte 188 17.5 241 26.1 429 21.5 Gardena 184 19.8 180 24.1 364 21.7 Glendale 533 23.2 682 25.9 1,215 24.6 Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8<		Claremont						
Culver City 121 22.0 137 25.0 258 23.5 Diamond Bar 100 24.6 68 18.9 168 21.9 Downey 281 23.8 259 24.4 540 24.1 Duarte 60 23.6 104 29.0 164 26.8 EI Monte 188 17.5 241 26.1 429 21.5 Gardena 184 19.8 180 24.1 364 21.7 Glendale 533 23.2 682 25.9 1,215 24.6 Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25								
Diamond Bar 100 24.6 68 18.9 168 21.9 Downey 281 23.8 259 24.4 540 24.1 Duarte 60 23.6 104 29.0 164 26.8 El Monte 188 17.5 241 26.1 429 21.5 Gardena 184 19.8 180 24.1 364 21.7 Glendale 533 23.2 682 25.9 1,215 24.6 Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7<		Covina	150		181			
Downey 281 23.8 259 24.4 540 24.1 Duarte 60 23.6 104 29.0 164 26.8 El Monte 188 17.5 241 26.1 429 21.5 Gardena 184 19.8 180 24.1 364 21.7 Glendale 533 23.2 682 25.9 1,215 24.6 Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Culver City	121	22.0	137	25.0	258	23.5
Duarte 60 23.6 104 29.0 164 26.8 El Monte 188 17.5 241 26.1 429 21.5 Gardena 184 19.8 180 24.1 364 21.7 Glendale 533 23.2 682 25.9 1,215 24.6 Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Diamond Bar	100					
El Monte 188 17.5 241 26.1 429 21.5 Gardena 184 19.8 180 24.1 364 21.7 Glendale 533 23.2 682 25.9 1,215 24.6 Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Downey	281	23.8	259	24.4	540	24.1
Gardena 184 19.8 180 24.1 364 21.7 Glendale 533 23.2 682 25.9 1,215 24.6 Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Duarte	60	23.6	104	29.0	164	26.8
Glendale 533 23.2 682 25.9 1,215 24.6 Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		El Monte	188	17.5	241	26.1	429	21.5
Glendora 127 23.1 171 27.9 298 25.7 Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Gardena	184	19.8	180	24.1	364	21.7
Hacienda Heights 104 23.6 65 19.6 169 21.9 Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Glendale	533	23.2	682	25.9	1,215	24.6
Hawethorne 142 17.1 142 21.8 284 19.2 Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Glendora	127	23.1	171	27.9	298	25.7
Huntington Park 97 17.4 124 25.8 221 21.3 Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Hacienda Heights	104	23.6	65	19.6	169	21.9
Inglewood 178 13.6 298 25.8 476 19.4 Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Hawethorne	142	17.1	142	21.8	284	19.2
Lakewood 221 24.5 192 24.7 413 24.6 La Mirada 105 23.8 96 23.1 201 23.5		Huntington Park	97	17.4	124	25.8	221	21.3
La Mirada 105 23.8 96 23.1 201 23.5		Inglewood	178	13.6	298	25.8	476	19.4
		Lakewood	221	24.5	192	24.7	413	24.6
Lancaster 241 19.5 273 24.0 514 21.7		La Mirada	105	23.8	96	23.1	201	23.5
		Lancaster	241	19.5	273	24.0	514	21.7

(Continued)

LOS ANGELES COUNTY

TABLE 21 (CONTINUED): IHD DEATHS BY CITY FOR LOS ANGELES COUNTY, 1989-1991

		M A	A L E PERCENT OF	F E M	A L E PERCENT OF	T O	T A L PERCENT OF
	PLACE	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS
	CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7
Los An	geles County						
	La Puente	140	16.2	146	22.2	286	18.8
	La Verne	79	22.9	104	28.4	183	25.7
	Lawndale	41	15.0	48	22.1	89	18.1
	Long Beach	1,153	19.0	1,384	24.4	2,537	21.6
	Los Angeles	8,339	18.3	9,753	25.0	18,092	21.4
	Lynwood	101	18.0	111	24.3	212	20.8
	Manhattan Beach	43	16.5	60	21.2	103	19.0
	Maywood	43	22.8	49	29.9	92	26.1
	Monrovia	91	21.7	129	29.5	220	25.6
	Montebello	142	21.0	158	25.5	300	23.2
	Monterey Park	149	23.2	139	24.4	288	23.8
	Norwalk	202	21.2	248	28.3	450	20.0
	Palmdale	118	17.1	128	23.7	246	22.7
	Paramount	97	20.3	95	25.7	192	22.7
	Pasadena	384	21.4	524	24.5	908	23.1
	Pico Rivera	144	22.9	149	27.5	293	25.0
	Pomona	290	22.3	336	28.5	626	25.2
	Rancho Palos Verde		25.0	135	22.4	279	23.7
	Redondo Beach	486	21.1	497	22.3	983	21.7
	Rosemead	144	22.8	135	23.4	279	23.1
	Rowland Heights	53	19.7	56	25.0	109	22.1
	San Dimas	83	25.0	98	29.6	181	27.3
	San Fernando	40	13.6	57	22.3	97	17.6
	San Gabriel	155	23.2	166	24.3	321	23.8
	Santa Monica	293	22.5	418	25.9	711	24.4
	South Gate	168	20.3	190	26.7	358	23.3
	South Pasadena	55	23.3	62	22.1	117	22.6
	Temple City	109	28.1	141	32.1	250	30.2
	West Covina	194	20.6	173	22.0	367	21.2
	Whittier	418	23.1	440	25.3	858	24.2

LOS ANGELES COUNTY

TABLE 22: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR IHD BY CITY FOR LOS ANGELES COUNTY, 1989-1991

	M A		F E M		T 0 1	
PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00
Angeles County						
Agoura Hills						
Alhambra	189.84	0.96	152.90	1.17	168.40	1.06
Altadena	139.44	0.71	143.91	1.10	144.33	0.91
Arcadia	200.06	1.01	127.98	0.98	157.62	0.99
Azusa	187.59	0.95	157.05	1.21	172.41	1.08
Baldwin Park	161.45	0.82	167.64	1.29	166.81	1.05
Bell	177.60	0.90	143.14	1.10	157.67	0.99
Bellflower	213.24	1.08	191.39	1.47**	200.78	1.26**
Beverly Hills	138.68	0.70	113.58	0.87	124.43	0.78
Burbank	192.39	0.98	120.19	0.92	148.95	0.94
Carson	253.83	1.29	174.35	1.34	208.65	1.31**
Cerritos	223.63	1.13	144.70	1.11	172.63	1.09
Claremont	177.67	0.90	141.62	1.09	152.57	0.96
Compton	125.90	0.64	86.15	0.66	104.39	0.66
Covina	260.41	1.32	165.24	1.27	191.55	1.20
Culver City	202.89	1.03	146.04	1.12	170.13	1.07
Diamond Bar	213.48	1.08	112.48	0.86	154.51	0.97
Downey	229.83	1.17	130.92	1.01	168.73	1.06
Duarte	203.49	1.03	151.06	1.16	167.85	1.06
El Monte	216.55	1.10	177.46	1.36**	196.06	1.23**
Gardena	218.14	1.11	159.63	1.23	184.47	1.16
Glendale	193.34	0.98	131.60	1.01	155.68	0.98
Glendora	222.43	1.13	171.31	1.32	193.55	1.22
Hacienda Heig	hts 215.47	1.09	106.57	0.82	151.42	0.95
Hawethorne	203.50	1.03	136.75	1.05	166.50	1.05
Huntington Pa	rk 190.12	0.96	160.73	1.23	173.39	1.09
Inglewood	192.30	0.98	177.22	1.36**	182.37	1.15
Lakewood	244.70	1.24	151.38	1.16	189.65	1.19
La Mirada	214.22	1.09	172.26	1.32	186.30	1.17
Lancaster	208.90	1.06	153.13	1.18	176.91	1.11

(Continued)

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

LOS ANGELES COUNTY

Table 22 (Continued): Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate for IHD by City for Los Angeles County, 1989-1991

		M A	L E	F E M	A L E	T 0	Г A L	
	PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
	CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00	
Los Ar	ngeles County							
	La Puente	164.30	0.83	141.27	1.08	152.09	0.96	
	La Verne	214.13	1.09	125.67	0.96	151.29	0.95	
	Lawndale	190.61	0.97	135.13	1.04	159.13	1.00	
	Long Beach	220.16	1.12**	152.40	1.17**	181.14	1.14**	
	Los Angeles	194.59	0.99	142.81	1.10**	165.27	1.04**	
	Lynwood	255.54	1.30	169.56	1.30	200.67	1.26	
	Manhattan Beach	127.95	0.65	130.28	1.00	160.57	1.01	
	Maywood	383.30	1.94**	212.22	1.63	266.05	1.67**	
	Monrovia	229.29	1.16	151.83	1.17	179.71	1.13	
	Montebello	166.89	0.85	105.01	0.81	130.71	0.82	
	Monterey Park	166.96	0.85	91.15	0.70	121.93	0.77*	
	Norwalk	236.30	1.20	192.94	1.48**	213.36	1.34**	
	Palmdale	189.62	0.96	185.60	1.42**	188.07	1.18	
	Paramount	337.85	1.71**	182.70	1.40	234.66	1.48**	
	Pasadena	176.52	0.90	124.73	0.96	146.22	0.92	
	Pico Rivera	211.22	1.07	145.31	1.12	173.31	1.09	
	Pomona	294.61	1.49**	189.94	1.46**	232.03	1.46**	
	Rancho Palos Verdes	174.16	0.88	147.48	1.13	161.94	1.02	
	Redondo Beach	207.89	1.05	137.05	1.05	167.39	1.05	
	Rosemead	185.22	0.94	139.48	1.07	159.80	1.01	
	Rowland Heights	218.37	1.11	127.56	0.98	177.92	1.12	
	San Dimas	255.17	1.29	203.85	1.56**	223.62	1.41**	
	San Fernando	146.88	0.74	142.27	1.09	144.16	0.91	
	San Gabriel	190.57	0.97	112.16	0.86	143.83	0.90	
	Santa Monica	183.41	0.93	131.47	1.01	151.48	0.95	
	South Gate	244.38	1.24	158.75	1.22	194.84	1.23**	
	South Pasadena	171.05	0.87	106.13	0.81	131.17	0.83	
	Temple City	211.82	1.07	173.37	1.33	188.52	1.19	
	West Covina	228.21	1.16	131.62	1.01	169.40	1.07	
	Whittier	339.09	1.72**	225.92	1.73**	272.92	1.72**	

Notes: Relative rate is ratio of place to statewide rate.

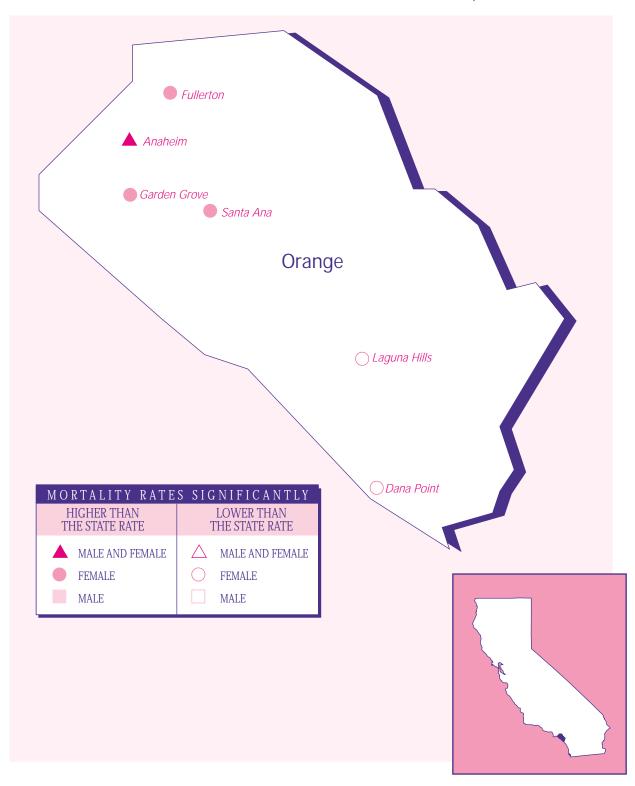
^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

ORANGE COUNTY

Map 11: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in Orange County, 1989-1991



ORANGE COUNTY

TABLE 23: IHD DEATHS BY CITY FOR ORANGE COUNTY, 1989-1991

		М	A L E	F E M		ΤO	T A L
	PLACE	NUMBER	PERCENT OF ALL DEATHS	NUMBER	PERCENT OF ALL DEATHS	NUMBER	PERCENT OF ALL DEATHS
	CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7
Orange	County						
	Anaheim	643	24.5	695	27.1	1,338	25.8
	Brea	74	25.3	69	24.2	143	24.8
	Buena Park	158	22.4	149	26.2	307	24.1
	Costa Mesa	202	23.0	174	20.1	376	21.5
	Cypress	91	25.5	62	19.8	153	22.8
	Dana Point	31	19.5	26	21.0	57	20.1
	El Toro	102	26.2	85	22.4	187	24.3
	Fountain Valley	106	23.8	87	20.2	193	22.1
	Fullerton	274	25.0	317	27.4	591	26.2
	Garden Grove	360	24.5	382	25.3	742	24.9
	Huntington Beach	341	22.1	377	25.0	718	23.5
	Irvine	122	23.5	116	21.6	238	22.6
	Laguna Beach	144	21.8	143	24.5	287	23.1
	Laguna Hills	438	32.8	430	27.7	868	30.1
	La Habra	147	25.4	139	15.8	286	25.6
	Mission Viejo	132	27.2	94	20.3	226	23.8
	Newport Beach	160	21.3	182	20.9	342	21.1
	Orange	235	23.3	300	26.4	535	24.9
	Placentia	83	22.0	66	19.5	149	20.8
	San Clemente	110	27.7	92	22.4	202	25.0
	San Juan Capistran	o 82	25.0	56	21.6	138	23.5
	Santa Ana	463	18.9	578	26.6	1,041	22.5
	Seal Beach	209	34.0	318	34.8	527	34.4
	Stanton	57	21.2	63	25.6	120	23.3
	Tustin	102	24.3	134	28.8	236	26.7
	Westminster	160	19.6	172	23.4	332	21.4
	Yorba Linda	80	24.8	68	23.1	148	24.0

ORANGE COUNTY

TABLE 24: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR IHD BY CITY FOR ORANGE COUNTY, 1989-1991

		M A	L E	F E M	A L E	Т О Т	A L
	PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
	CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00
Orange	County						
	Anaheim	271.56	1.38**	178.19	1.37**	216.91	1.36**
	Brea	160.06	0.81	119.61	0.92	140.96	0.89
	Buena Park	269.85	1.37	156.12	1.20	200.15	1.26**
	Costa Mesa	233.53	1.18	120.70	0.93	166.54	1.05
	Cypress	209.35	1.06	129.51	0.99	160.28	1.01
	Dana Point			44.02	0.34*	71.40	0.45
	El Toro	280.49	1.16	119.05	0.91	162.74	1.02
	Fountain Valley	238.16	1.21	119.67	0.92	162.68	1.02
	Fullerton	233.15	1.18	161.41	1.24**	191.96	1.21**
	Garden Grove	232.77	1.18	163.06	1.25**	194.02	1.22**
	Huntington Beach	195.51	0.99	136.89	1.05	160.03	1.01
	Irvine	170.36	0.86	109.13	0.84	130.88	0.82
	Laguna Beach	214.26	1.09	99.61	0.76	135.91	0.85
	Laguna Hills	225.14	1.14	97.27	0.75*	151.10	0.95
	La Habra	303.02	1.54	154.25	1.18	212.23	1.33**
	Mission Viejo	174.45	0.88	105.86	0.81	136.85	0.86
	Newport Beach	285.71	1.45	109.34	0.84	158.92	1.00
	Orange	213.08	1.08	152.42	1.17	178.06	1.12
	Placentia	202.24	1.03	116.69	0.90	152.35	0.96
	San Clemente	153.49	0.78	114.77	0.88	129.68	0.82
	San Juan Capistrano		1.01	93.23	0.72	136.93	0.86
	Santa Ana	216.99	1.10	171.64	1.32**	189.71	1.19**
	Seal Beach	234.66	1.19	128.61	0.99	165.96	1.04
	Stanton	277.71	1.41	137.43	1.06	173.05	1.09
	Tustin	223.41	1.13	169.07	1.30	191.08	1.20
	Westminster	199.74	1.01	142.24	1.09	165.87	1.04
	Yorba Linda	245.59	1.25	167.82	1.29	197.96	1.25

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

SOUTHEAST COUNTIES

Map 12: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in Southeast Counties, 1989 -1991



SOUTHEAST COUNTIES

TABLE 25: IHD DEATHS BY CITY FOR RIVERSIDE AND SAN BERNARDING COUNTIES, 1989-1991

		M A	L E	F E M		ТО	T A L
	PLACE	NUMBER	PERCENT OF ALL DEATHS	NUMBER	PERCENT OF ALL DEATHS	NUMBER	PERCENT OF ALL DEATHS
	CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7
Riversio	de County						
	Banning	124	29.2	154	35.3	278	32.3
	Cathedral City	80	19.6	55	20.0	135	19.8
	Corona	205	26.3	158	28.1	363	27.1
	Hemet	713	31.0	607	31.3	1,320	31.1
	Indio	103	23.2	100	30.3	203	26.2
	Moreno Valley	122	25.5	108	24.9	230	25.2
	Norco	41	23.4	40	24.7	81	24.0
	Palm Desert	147	25.0	104	23.9	251	24.5
	Palm Springs	262	26.2	185	24.3	447	25.4
	Perris	144	23.9	143	30.0	287	26.6
	Riverside	807	26.6	835	28.7	1,642	27.6
	Rubidoux	10	32.3	17	37.8	27	35.5
	Temecula	43	20.4	24	17.8	67	19.4
San Be	rnardino County						
	Apple Valley	162	28.1	114	23.0	276	25.7
	Barstow	103	26.5	81	25.1	184	25.8
	Chino	139	20.2	113	23.9	252	21.7
	Colton	143	25.8	125	27.8	268	26.7
	Fontana	207	20.4	252	29.0	459	24.4
	Hesperia	204	30.3	160	30.9	364	30.6
	Montclair	84	28.3	72	29.6	156	28.9
	Ontario	278	22.7	262	25.5	540	24.0
	Rancho Cucamong	a 96	24.7	65	21.0	161	23.0
	Redlands	245	27.8	316	30.4	561	29.2
	Rialto	239	24.3	226	27.0	465	25.5
	San Bernardino	640	21.9	700	26.9	1,338	24.2
	Upland	181	28.8	160	25.2	341	27.0
	Victorville	167	25.3	132	24.7	299	25.0
	Yucaipa	253	32.1	213	26.4	466	29.2

SOUTHEAST COUNTIES

Table 26: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For IHD by City for Riverside and San Bernardino Counties, 1989-1991

		M A	L E	F E M A L E T			O T A L	
	PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
	CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00	
Riversi	ide County							
	Banning	257.09	1.30	219.56	1.69**	236.15	1.49**	
	Cathedral City	192.81	0.98	92.54	0.71	138.56	0.87	
	Corona	316.05	1.60**	164.10	1.26	227.57	1.43**	
	Hemet	238.63	1.21	132.54	1.02	178.68	1.12	
	Indio	205.06	1.04	157.47	1.21	178.15	1.12	
	Moreno Valley	195.30	0.99	157.01	1.21	177.50	1.12	
	Norco	247.90	1.26	182.76	1.40	243.20	1.53	
	Palm Desert	149.90	0.76	127.48	0.98	134.89	0.85	
	Palm Springs	226.00	1.15	112.57	0.86	159.46	1.00	
	Perris	257.62	1.31	210.73	1.62**	235.15	1.48**	
	Riverside	318.73	1.62**	210.13	1.61**	256.45	1.61**	
	Rubidoux							
	Temecula			87.22	0.67	121.51	0.76	
San Be	ernardino County							
	Apple Valley	238.76	1.21	167.06	1.28	199.95	1.26	
	Barstow	339.25	1.72**	184.11	1.41	245.81	1.55**	
	Chino	246.77	1.25	142.24	1.09	183.68	1.16	
	Colton	304.31	1.54**	207.52	1.59**	252.53	1.59**	
	Fontana	256.49	1.30**	233.47	1.79**	244.86	1.54**	
	Hesperia	313.47	1.59**	203.34	1.56**	248.08	1.56**	
	Montclair	333.81	1.69**	205.31	1.58**	253.97	1.60**	
	Ontario	285.51	1.45**	170.57	1.31**	215.64	1.36**	
	Rancho Cucamonga	147.33	0.75	76.74	0.59*	106.19	0.67*	
	Redlands	277.15	1.41**	202.97	1.56**	233.57	1.47**	
	Rialto	319.49	1.62**	200.73	1.54**	248.08	1.56**	
	San Bernardino	249.92	1.27**	175.89	1.35**	207.00	1.30**	
	Upland	256.18	1.30	144.22	1.11	190.18	1.20	
	Victorville	274.84	1.39**	172.59	1.32	218.05	1.37**	
	Yucaipa	335.77	1.70**	123.34	0.95	211.66	1.33	

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

SAN DIEGO AND IMPERIAL COUNTIES

Map 13: Cities with Mortality Rates Significantly Different from the State Rate for IHD by Gender in San Diego and Imperial Counties, 1989 -1991



SAN DIEGO AND IMPERIAL COUNTIES

TABLE 27: IHD DEATHS BY CITY FOR SAN DIEGO AND IMPERIAL COUNTIES, 1989-1991

		M A	L E PERCENT OF	F E M	I A L E PERCENT OF	T O	T A L PERCENT OF
	PLACE	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS
	CALIFORNIA	70,509	20.8	69,660	22.8	140,169	21.7
Imperial	County						
,	El Centro	96	22.3	53	17.8	149	20.5
San Dieg	go County						
	Carlsbad	121	19.6	92	16.3	213	18.1
	Chula Vista	402	24.5	381	23.8	783	24.2
	Coronado	39	16.7	49	16.8	88	16.8
	El Cajon	339	21.2	390	23.6	729	22.4
	Encinitas	100	21.1	100	21.2	200	21.1
	Escondido	336	20.9	321	20.8	657	20.9
	Fallbrook	79	21.2	74	17.3	153	19.1
	Imperial Beach	55	24.1	36	20.7	91	22.6
	Lakeside	89	23.0	58	18.2	147	20.9
	La Mesa	337	22.2	370	23.3	707	22.7
	Lemon Grove	66	19.5	95	24.7	161	22.2
	National City	116	20.9	139	25.7	255	23.3
	Oceanside	308	19.2	251	20.3	559	19.7
	Poway	73	23.0	53	17.0	126	20.0
	San Diego	2,278	19.1	2,307	21.7	4,585	20.3
	San Marcos	151	24.2	106	20.7	257	22.6
	Santee	113	22.6	86	19.3	199	21.1
	Vista	204	22.1	190	21.3	394	21.7

SAN DIEGO AND IMPERIAL COUNTIES

Table 28: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For IHD by City for San Diego and Imperial Counties, 1989-1991

				· · · · · · · · · · · · · · · · ·		T O T A I	
		M A	L E	F E M	A L E	ТОТ	A L
Р	LACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
C	CALIFORNIA	197.22	1.00	130.26	1.00	158.99	1.00
Imperial C	County						
E	I Centro	264.29	1.34	94.99	0.73	160.85	1.01
San Diego	County						
C	Carlsbad	146.95	0.75	76.78	0.59*	106.67	0.67*
C	Chula Vista	218.64	1.11	134.67	1.03	170.35	1.07
C	Coronado	93.44	0.47*	103.78	0.80	97.39	0.61
E	I Cajon	204.66	1.04	155.42	1.19	176.88	1.11
E	incinitas	160.56	0.81	102.05	0.78	126.08	0.79
E	scondido	172.81	0.88	104.05	0.80	133.45	0.84
F	allbrook	115.67	0.59*	87.31	0.67	102.01	0.64*
Ir	mperial Beach	246.64	1.25	140.01	1.07	188.74	1.19
L	.akeside	329.26	1.67			209.90	1.32
L	.a Mesa	203.63	1.03	119.57	0.92	151.01	0.95
L	emon Grove	177.96	0.90	142.20	1.09	162.05	1.02
N	National City	206.38	1.05	156.07	1.20	176.53	1.11
C	Oceanside	169.11	0.86	87.72	0.67*	120.86	0.76*
Р	oway	197.66	1.00	121.22	0.93	147.07	0.92
S	San Diego	172.83	0.88*	114.50	0.88*	139.82	0.88*
S	San Marcos	159.63	0.81	99.72	0.77	113.31	0.71
S	Santee	195.22	0.99	112.87	0.87	150.65	0.95
V	/ista	163.95	0.83	105.91	0.81	132.27	0.83

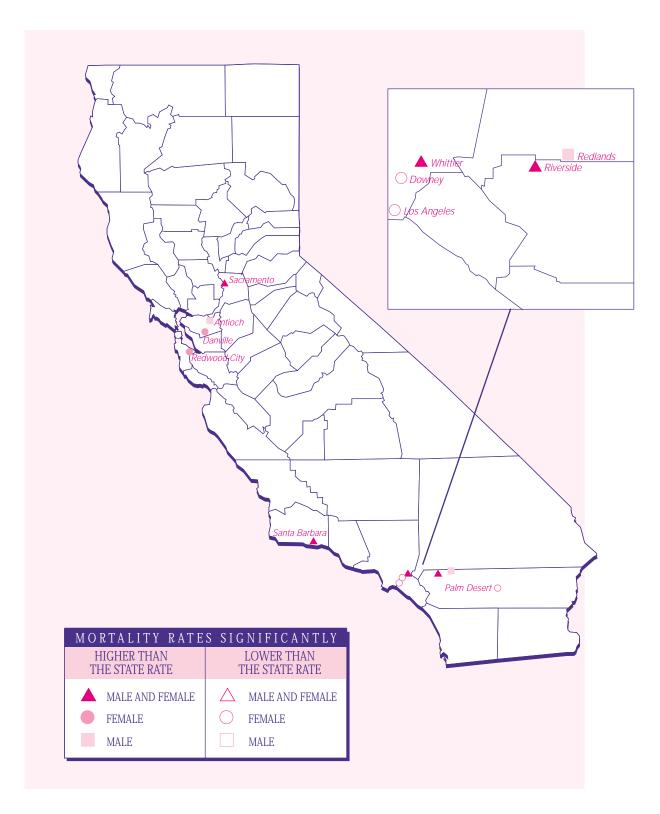
Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

Map 14: Cities with Mortality Rates Significantly Different from the State Rate for Stroke by Gender in California, 1989-1991



NORTHERN CALIFORNIA COUNTIES

TABLE 29: STROKE DEATHS BY CITY FOR BUTTE, HUMBOLDT AND SHASTA COUNTIES, 1989-1991

PLACE	M A	L E PERCENT OF ALL DEATHS	F E M	I A L E PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS	
CALIFORNIA	18,389	5.4	28,227	9.2	46,616	7.2	
Butte County							
Chico	54	6.4	84	10.8	138	8.5	
Paradise	50	7.5	62	9.1	112	8.3	
Humboldt County							
Eureka	34	5.0	46	7.3	80	6.1	
Shasta County							
Redding	86	6.9	123	11.3	209	8.9	

NORTHERN CALIFORNIA COUNTIES

Table 30: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For Stroke by City for Butte, Humboldt and Shasta Counties, 1989-1991

			_			T 0 T	
		M A L	_ E	F E M A	A L E	1 0 1	A L
		MORTALITY	RELATIVE	MORTALITY	RELATIVE	MORTALITY	RELATIVE
	PLACE	RATE	RATE	RATE	RATE	RATE	RATE
	CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00
Butte (County						
	Chico	65.17	1.24	44.63	0.85	59.73	1.13
	Paradise	47.83	0.91	37.55	0.72	42.20	0.80
Humbo	oldt County						
	Eureka	41.84	0.80	42.57	0.81	42.14	0.80
Shasta	County						
	Redding	62.18	1.18	59.61	1.14	61.71	1.17

Notes: Relative rate is ratio of place to statewide rate.

- * Place has significantly lower rate than state rate with an overall significance level of 0.10.
- ** Place has significantly higher rate than state rate with an overall significance evel of 0.10.
- . Insufficient data was available to calculate rate.

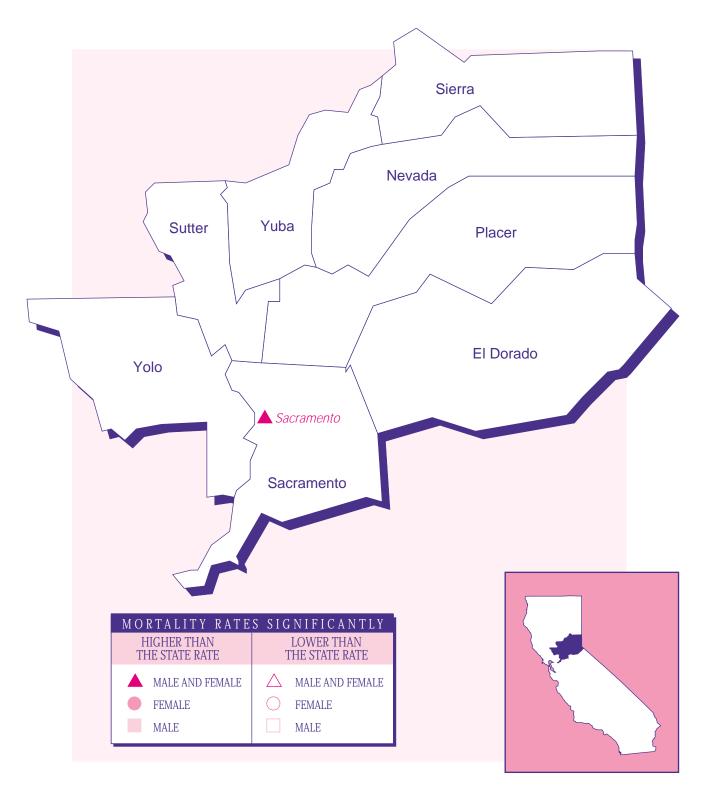
Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program.

California Department of Health Services and University of California, San Francisco.

CORE PROGRAM

SACRAMENTO AREA COUNTIES

Map 15: Cities with Mortality Rates Significantly Different from the State Rate for Stroke by Gender in Sacramento Area Counties, 1989 -1991



SACRAMENTO AREA COUNTIES

TABLE 31: STROKE DEATHS BY CITY FOR EL DORADO, PLACER, SACRAMENTO, SUTTER AND YOLO COUNTIES, 1989-1991

PLACE	M A	PERCENT OF ALL DEATHS	F E N	1 A L E PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS	
CALIFORNIA	18,389	5.4	28,227	9.2	46,616	7.2	
El Dorado County							
South Lake Tahoe	5	2.5	8	4.8	13	3.5	
Placer County							
Roseville	35	5.4	51	8.0	86	6.7	
Sacramento County							
Carmichael	40	5.6	74	8.6	114	7.2	
Citrus Heights	84	5.8	115	8.6	199	7.2	
Folsom	12	5.1	14	6.0	26	5.5	
North Highlands	15	3.9	19	5.8	34	4.8	
Rancho Cordova	14	4.2	29	8.3	43	6.3	
Sacramento	423	5.3	648	9.1	1,071	7.1	
Sutter County							
Yuba City	51	7.6	67	10.9	118	9.2	
Yolo County							
Davis	27	8.5	24	8.6	51	8.6	
West Sacramento	19	3.4	31	7.7	50	5.2	
Woodland	33	6.0	51	10.2	84	8.0	

SACRAMENTO AREA COUNTIES

TABLE 32: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE
RATE FOR STROKE BY CITY FOR EL DORADO, PLACER, SACRAMENTO, SUTTER AND
YOLO COUNTIES, 1989-1991

	M A L E		F E M	A L E	TOTAL		
PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00	
El Dorado County							
South Lake Tahoe							
Placer County							
Roseville	61.53	1.17	45.96	0.88	51.08	0.97	
Sacramento County							
Carmichael	66.57	1.27	67.44	1.29	66.05	1.25	
Citrus Heights			82.86	1.58	89.52	1.70	
Folsom							
North Highlands	42.31	0.81			48.64	0.92	
Rancho Cordova	38.55	0.73	62.63	1.20	51.89	0.98	
Sacramento	63.25	1.21**	61.48	1.17**	62.60	1.19**	
Sutter County							
Yuba City	71.97	1.37	60.29	1.15	67.31	1.28	
Yolo County							
Davis	73.34	1.40	46.23	0.88	57.58	1.09	
West Sacramento	46.21	0.88	57.32	1.09	49.92	0.95	
Woodland	61.49	1.17	55.83	1.07	58.15	1.10	

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

NORTH BAY AREA COUNTIES

TABLE 33: STROKE DEATHS BY CITY FOR NAPA, SOLANO AND SONOMA COUNTIES, 1989-1991

PLACE	M A	L E PERCENT OF ALL DEATHS	F E N	1 A L E PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS	
CALIFORNIA	18,389	5.4	28,227	9.2	46,616	7.2	
Napa County							
Napa	71	6.9	106	9.7	177	8.4	
Solano County							
Benicia	8	3.9	19	9.9	27	6.8	
Fairfield	35	5.8	47	8.2	82	7.0	
Suisun City	16	8.6	19	14.3	35	11.0	
Vacaville	29	4.4	51	9.2	80	6.6	
Vallejo	83	5.9	138	10.4	221	8.1	
Sonoma County							
Petaluma	35	5.9	70	12.0	105	8.9	
Santa Rosa	176	6.9	250	9.8	426	8.4	

NORTH BAY AREA COUNTIES

Table 34: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For Stroke by City for Napa, Solano and Sonoma Counties, 1989-1991

	M A	L E	F E M A L E		T O T A L		
PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00	
Napa County							
Napa	47.14	0.90	67.54	1.29	54.08	1.02	
Solano County							
Benicia							
Fairfield	67.06	1.28	64.59	1.23	65.93	1.25	
Suisun City	84.79	1.62	79.28	1.51	81.76	1.55	
Vacaville	44.88	0.86	60.35	1.15	54.59	1.03	
Vallejo	59.12	1.13	65.04	1.24	63.14	1.20	
Sonoma County							
Petaluma	53.35	1.02	70.39	1.34	61.15	1.16	
Santa Rosa	54.19	1.03	48.47	0.93	51.15	0.97	

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

BAY AREA COUNTIES

MAP 16: CITIES WITH MORTALITY RATES SIGNIFICANTLY DIFFERENT FROM THE STATE RATE FOR STROKE BY GENDER IN BAY AREA COUNTIES, 1989 -1991



BAY AREA COUNTIES

Table 35: Stroke Deaths by City for Alameda, Contra Costa, Marin, San Francisco and San Mateo Counties, 1989-1991

	M A	L E PERCENT OF	F E N	/I A L E PERCENT OF	T O	T A L PERCENT OF
PLACE	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS
CALIFORNIA	18,389	5.4	28,227	9.2	46,616	7.2
Alameda County						
Alameda	48	5.8	86	9.1	134	7.6
Berkeley	100	8.6	140	10.8	240	9.7
Castro Valley	40	6.7	49	8.0	89	7.3
Dublin	5	4.7	6	7.5	11	5.9
Fremont	80	5.9	101	8.6	181	7.2
Hayward	98	5.4	143	8.4	241	6.9
Livermore	14	3.0	40	8.5	54	5.8
Newark	9	3.4	20	8.5	29	5.8
Oakland	354	5.9	573	10.7	927	8.1
Pleasanton	26	8.1	38	11.9	64	10.0
San Leandro	97	7.1	113	8.3	210	7.7
Union City	25	5.9	36	9.9	61	7.8
Contra Costa County						
Antioch	52	8.8	43	8.1	95	8.5
Concord	54	4.9	111	10.1	165	7.5
Danville	19	6.5	42	13.6	61	10.1
El Cerrito	22	6.3	34	9.8	56	8.0
Lafayette	12	4.7	24	9.5	36	7.1
Martinez	25	5.1	53	11.5	78	8.2
Pittsburg	42	5.8	48	7.9	90	6.8
Pleasant Hill	19	6.2	35	9.8	54	8.1
Richmond	91	4.6	150	8.5	241	6.4
San Ramon	5	2.9	15	10.2	20	6.3
Walnut Creek	113	9.7	190	13.5	303	11.7
Marin County						
Novato	27	4.9	52	9.8	79	7.3
San Rafael	45	6.0	88	10.4	133	8.3
San Francisco County						
San Francisco	697	4.8	1,030	10.0	1,727	7.0
San Mateo County						
Belmont	11	4.5	22	10.2	33	7.2
Burlingame	46	8.4	99	15.3	145	12.2
Daly City	95	5.8	154	10.9	249	8.1
Foster City	13	6.8	21	10.0	34	8.4
Menlo Park	24	5.2	63	10.8	87	8.3
Millbrae	20	6.7	44	13.3	64	10.2
Pacifica	21	6.2	30	9.4	51	7.8
Redwood City	55	5.8	104	11.8	159	8.7
San Bruno	28	6.8	36	9.8	64	8.2
San Carlos	23	6.8	48	13.1	71	10.1
San Mateo	85	7.3	144	12.0	229	9.7

$S\ t\ r\ o\ k\ e$ bay area counties

TABLE 36: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR STROKE BY CITY FOR ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO AND SAN MATEO COUNTIES, 1989-1991

	M A	M A L E		A L E	T O T A L	
PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00
Alameda County						
Alameda	51.88	0.99	52.75	1.01	51.74	0.98
Berkeley	63.51	1.21	50.30	0.96	54.39	1.03
Castro Valley	74.61	1.42	54.67	1.04	62.55	1.19
Dublin						
Fremont	59.06	1.13	53.38	1.02	56.35	1.07
Hayward	56.60	1.08	55.12	1.05	56.25	1.07
Livermore			48.27	0.92	45.41	0.85
Newark						
Oakland	57.16	1.09	62.46	1.19	61.52	1.17**
Pleasanton	71.93	1.37	63.37	1.21	66.92	1.27
San Leandro	63.22	1.20	49.53	0.95	55.33	1.05
Union City	51.75	0.99	48.74	0.93	50.50	0.96
Contra Costa County						
Antioch	90.47	1.72**	70.74	1.35	77.00	1.46
Concord	59.05	1.13	58.38	1.11	59.46	1.13
Danville	75.52	1.44	97.22	1.86**	89.54	1.70**
El Cerrito	35.40	0.67	35.22	0.67	34.89	0.66
Lafayette	34.37	0.65	43.22	0.83	39.34	0.75
Martinez	57.10	1.09	83.14	1.59	72.24	1.37
Pittsburg	66.50	1.27	52.63	1.01	58.16	1.10
Pleasant Hill	52.05	0.99	51.92	0.99	52.55	1.00
Richmond	48.45	0.92	53.36	1.02	51.40	0.97
San Ramon						
Walnut Creek	53.89	1.03	61.91	1.18	53.43	1.01
Marin County						
Novato	55.64	1.06	61.34	1.17	59.61	1.13
San Rafael	49.09	0.94	58.97	1.13	54.59	1.03
San Francisco County						
San Francisco	55.73	1.06	52.09	0.99	53.79	1.02
San Mateo County			4	0.5=		0 = 0
Belmont	,,,,,,	,	45.36	0.87	41.31	0.78
Burlingame	62.02	1.18	83.06	1.59	73.32	1.39
Daly City	48.09	0.92	52.37	1.00	51.25	0.97
Foster City		0.74	55.96	1.07	59.99	1.14
Menlo Park	31.80	0.61	48.62	0.93	41.97	0.80
Millbrae	41.01	0.78	59.00	1.13	52.23	0.99
Pacifica	67.03	1.28	62.42	1.19	66.24	1.26
Redwood City	77.19	1.47	95.59	1.83**	86.97	1.65**
San Bruno	60.58	1.15	70.28	1.34	63.41	1.20
San Carlos	44.69	0.85	63.82	1.22	60.13	1.14
San Mateo	52.94	1.01	54.39	1.04	54.14	1.03

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

MID CENTRAL COUNTIES

TABLE 37: STROKE DEATHS BY CITY FOR MERCED, SAN JOAQUIN AND STANISLAUS COUNTIES, 1989-1991

				T O	T A L PERCENT OF ALL DEATHS	
18,389	5.4	28,227	9.2	46,616	7.2	
9	4.3	17	8.4	26	6.3	
42	5.9	62	9.1	104	7.5	
83	9.4	125	14.4	208	11.9	
23	5.0	36	8.7	59	6.7	
212	5.5	280	9.1	492	7.1	
26	6.4	34	9.2	60	7.7	
18	5.5	16	5.9	34	5.7	
126	5.0	228	10.2	354	7.5	
40	6.0	53	8.8	93	7.3	
	M A NUMBER 18,389 9 42 83 23 212 26 18 126	NUMBER PERCENT OF ALL DEATHS 18,389 5.4 9 4.3 42 5.9 83 9.4 23 5.0 212 5.5 26 6.4 18 5.5 126 5.0	M A L E F E N NUMBER ALL DEATHS NUMBER 18,389 5.4 28,227 9 4.3 17 42 5.9 62 83 9.4 125 23 5.0 36 212 5.5 280 26 6.4 34 18 5.5 16 126 5.0 228	M A L E F E M A L E NUMBER ALL DEATHS NUMBER ALL DEATHS 18,389 5.4 28,227 9.2 9 4.3 17 8.4 42 5.9 62 9.1 83 9.4 125 14.4 23 5.0 36 8.7 212 5.5 280 9.1 26 6.4 34 9.2 18 5.5 16 5.9 126 5.0 228 10.2	M A L E F E M A L E T O NUMBER ALL DEATHS NUMBER ALL DEATHS NUMBER 18,389 5.4 28,227 9.2 46,616 9 4.3 17 8.4 26 42 5.9 62 9.1 104 83 9.4 125 14.4 208 23 5.0 36 8.7 59 212 5.5 280 9.1 492 26 6.4 34 9.2 60 18 5.5 16 5.9 34 126 5.0 228 10.2 354	

MID CENTRAL COUNTIES

TABLE 38: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR STROKE BY CITY FOR MERCED, SAN JOAQUIN AND STANISLAUS COUNTIES, 1989-1991

	M A	L E	F E M	A L E	T 0 T	A L	
PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00	
Merced County							
Atwater							
Merced	73.15	1.39	73.67	1.41	73.40	1.39	
San Joaquin County							
Lodi	74.41	1.42	66.37	1.27	68.50	1.30	
Manteca	53.22	1.01	69.93	1.34	63.69	1.21	
Stockton	55.22	1.05	55.20	1.05	55.93	1.06	
Tracy	69.55	1.33	62.81	1.20	64.72	1.23	
Stanislaus County							
Ceres	57.43	1.09	33.09	0.63	44.32	0.84	
Modesto	48.82	0.93	56.45	1.08	54.04	1.02	
Turlock	65.89	1.26	46.37	0.89	53.03	1.00	

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

WEST CENTRAL COUNTIES

Table 39: Stroke Deaths by City for Monterey, San Luis Obispo, Santa Clara and Santa Cruz Counties, 1989-1991

PLACE	M A	A L E PERCENT OF ALL DEATHS	F E N	A L E PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS	
CALIFORNIA	18,389	5.4	28,227	9.2	46,616	7.2	
Monterey County							
Monterey	26	7.0	43	10.9	69	9.0	
Salinas	81	6.3	123	11.0	204	8.5	
San Luis Obispo County							
Atascadero	12	4.6	24	8.8	36	6.7	
San Luis Obispo	35	6.9	51	10.6	86	8.7	
Santa Clara County							
Campbell	13	3.4	37	8.4	50	6.1	
Cupertino	24	6.5	48	12.0	72	9.4	
Gilroy	14	4.3	22	8.3	36	6.1	
Los Altos	32	7.6	62	12.6	94	10.3	
Los Gatos	27	6.3	64	12.6	91	9.7	
Milpitas	7	2.5	18	7.5	25	4.8	
Morganhill	10	4.1	11	4.6	21	4.3	
Mountain View	41	7.2	65	10.9	106	9.0	
Palo Alto	59	6.5	97	10.5	156	8.5	
San Jose	370	5.7	537	8.9	907	7.3	
Santa Clara	44	4.8	87	10.0	131	7.4	
Saratoga	19	6.2	45	12.6	64	9.7	
Sunnyvale	60	5.5	109	10.5	169	7.9	
Santa Cruz County							
Santa Cruz	61	6.3	119	10.5	180	8.6	
Watsonville	43	6.6	48	8.4	91	7.4	

WEST CENTRAL COUNTIES

TABLE 40: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR STROKE BY CITY FOR MONTEREY, SAN LUIS OBISPO, SANTA CLARA AND SANTA CRUZ COUNTIES, 1989-1991

	M A	L E	F E M	A L E	T 0 1	A L	
PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00	
Monterey County							
Monterey	52.16	0.99	46.36	0.89	48.28	0.91	
Salinas	62.43	1.19	66.75	1.27	64.46	1.22	
San Luis Obispo County							
Atascadero			39.73	0.76			
San Luis Obispo	56.62	1.08	52.29	1.00	54.30	1.03	
Santa Clara County							
Campbell	38.26	0.73	52.13	1.00	44.66	0.85	
Cupertino	67.78	1.29	64.13	1.22	69.66	1.32	
Gilroy	51.85	0.99	45.02	0.86	43.02	0.82	
Los Altos	45.84	0.87	66.91	1.28	58.35	1.11	
Los Gatos	62.43	1.19	64.39	1.23	61.79	1.17	
Milpitas							
Morganhill							
Mountain View	63.00	1.20	51.48	0.98	56.18	1.06	
Palo Alto	53.54	1.02	53.16	1.02	53.28	1.01	
San Jose	51.08	0.97	49.01	0.94	49.85	0.94	
Santa Clara	48.90	0.93	55.85	1.07	53.73	1.02	
Saratoga	44.48	0.85	68.01	1.30	60.44	1.15	
Sunnyvale	44.76	0.85	59.05	1.13	52.43	0.99	
Santa Cruz County							
Santa Cruz	51.42	0.98	53.38	1.02	54.27	1.03	
Watsonville	56.45	1.08	45.91	0.88	51.35	0.97	

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

CENTRAL VALLEY COUNTIES

TABLE 41: STROKE DEATHS BY CITY FOR FRESNO, KERN, KINGS, MADERA AND TULARE COUNTIES, 1989-1991

PLACE NUMBER ALL DEATHS NUMBER ALL DEATHS NUMBER ALL DEATHS
PLACE NUMBER ALL DEATHS NUMBER ALL DEATHS NUMBER ALL DEATHS CALIFORNIA 18,389 5.4 28,227 9.2 46,616 7.2 Fresno County Clovis 26 5.0 44 8.4 70 6.7 Fresno 264 5.1 342 7.4 606 6.2 Kern County Bakersfield 178 4.5 237 7.1 415 5.7 Delano 15 4.2 14 7.0 29 5.2 Oildale 1 2.3 0 0.0 1 1.3
Fresno County Clovis 26 5.0 44 8.4 70 6.7 Fresno 264 5.1 342 7.4 606 6.2 Kern County Bakersfield 178 4.5 237 7.1 415 5.7 Delano 15 4.2 14 7.0 29 5.2 Oildale 1 2.3 0 0.0 1 1.3
Clovis 26 5.0 44 8.4 70 6.7 Fresno 264 5.1 342 7.4 606 6.2 Kern County Bakersfield 178 4.5 237 7.1 415 5.7 Delano 15 4.2 14 7.0 29 5.2 Oildale 1 2.3 0 0.0 1 1.3
Fresno 264 5.1 342 7.4 606 6.2 Kern County Bakersfield 178 4.5 237 7.1 415 5.7 Delano 15 4.2 14 7.0 29 5.2 Oildale 1 2.3 0 0.0 1 1.3
Kern County Bakersfield 178 4.5 237 7.1 415 5.7 Delano 15 4.2 14 7.0 29 5.2 Oildale 1 2.3 0 0.0 1 1.3
Bakersfield 178 4.5 237 7.1 415 5.7 Delano 15 4.2 14 7.0 29 5.2 Oildale 1 2.3 0 0.0 1 1.3
Delano 15 4.2 14 7.0 29 5.2 Oildale 1 2.3 0 0.0 1 1.3
Oildale 1 2.3 0 0.0 1 1.3
Didescreet 21 / 2 27 10.1 40 0.0
Ridgecrest 21 6.3 27 10.1 48 8.0
Kings County
Hanford 38 7.1 54 10.4 92 8.8
Madera County
Madera 33 4.8 25 4.8 58 4.8
Tulare County
Porterville 47 5.8 71 10.0 118 7.8
Tulare 27 4.4 44 7.8 71 6.0
Visalia 72 6.9 86 8.8 158 7.8

CENTRAL VALLEY COUNTIES

TABLE 42: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR STROKE BY CITY FOR FRESNO, KERN, KINGS, MADERA AND TULARE COUNTIES, 1989-1991

		M A	L E	F E M	A L E	T 0	A L		
F	PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE		
(CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00		
Fresno Co	ounty								
(Clovis	46.28	0.88	50.41	0.96	48.59	0.92		
I	Fresno	51.94	0.99	44.42	0.85	47.31	0.90		
Kern Cou	ınty								
I	Bakersfield	55.00	1.05	51.45	0.98	53.47	1.01		
I	Delano								
(Oildale								
I	Ridgecrest	62.26	1.19	93.87	1.79	73.17	1.40		
Kings Co	unty								
- 1	Hanford	64.28	1.22	66.19	1.26	66.31	1.26		
Madera (County								
1	Madera	46.31	0.88	29.93	0.57	36.42	0.69		
Tulare Co	ounty								
I	Porterville	58.61	1.12	58.31	1.11	59.17	1.12		
-	Tulare	53.32	1.02	56.33	1.08	55.36	1.05		
١	Visalia	60.01	1.14	45.14	0.86	51.52	0.98		

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

SANTA BARBARA AND VENTURA COUNTIES

Map 17: Cities with Mortality Rates Significantly Different from the State Rate for Stroke by Gender in Santa Barbara and Ventura Counties, 1989 -1991



SANTA BARBARA AND VENTURA COUNTIES

TABLE 43: STROKE DEATHS BY CITY FOR SANTA BARBARA AND VENTURA COUNTIES, 1989-1991

	PLACE	M A	PERCENT OF ALL DEATHS	F E N	PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS
	CALIFORNIA	18,389	5.4	28,227	9.2	46,616	7.2
Santa l	Barbara County						
	Lompoc	26	6.2	39	10.4	65	8.2
	Santa Barbara	128	7.7	227	11.6	355	9.8
	Santa Maria	59	5.9	67	7.1	126	6.5
Ventur	a County						
	Camarillo	33	4.4	66	9.6	99	6.9
	Moorpark	4	3.1	6	6.5	10	4.5
	Oxnard	64	5.0	92	8.3	156	6.5
	Port Hueneme	11	5.0	23	12.7	34	8.5
	Santa Paula	76	6.5	119	10.4	195	8.4
	Simi Valley	23	6.1	34	9.8	57	7.9
	Thousand Oaks	20	3.1	51	7.8	71	5.5
	Ventura	50	5.8	92	10.4	142	8.1

Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program.

California Department of Health Services and University of California, San Francisco.

SANTA BARBARA AND VENTURA COUNTIES

Table 44: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For Stroke by City for Santa Barbara and Ventura Counties, 1989-1991

M A	L E	F E M	A L E	T O 1	A L		
MORTALITY	RELATIVE	MORTALITY	RELATIVE	MORTALITY	RELATIVE		
RAIE	RATE	KAIE	KAIE	KAIE	RATE		
52.48	1.00	52.37	1.00	52.78	1.00		
49.13	0.94	61.61	1.18	54.13	1.03		
91.76	1.75**	86.24	1.65**	88.23	1.67**		
44.38	0.85	38.99	0.74	41.37	0.78		
28.66	0.55	39.75	0.76	34.58	0.66*		
39.68	0.76	48.33	0.92	46.15	0.87		
		66.04	1.26	54.32	1.03		
61.30	1.17	53.73	1.03	55.89	1.06		
38.48	0.73	62.08	1.19	51.04	0.97		
38.58	0.74	46.56	0.89	43.63	0.83		
57.86	1.10	64.07	1.22	60.84	1.15		
	MORTALITY RATE 52.48 49.13 91.76 44.38 28.66 39.68 61.30 38.48 38.58	MORTALITY RATE RELATIVE RATE 52.48 1.00 49.13 0.94 91.76 1.75** 44.38 0.85 28.66 0.55 . . 39.68 0.76 . . 61.30 1.17 38.48 0.73 38.58 0.74	MORTALITY RATE RELATIVE RATE MORTALITY RATE 52.48 1.00 52.37 49.13 0.94 61.61 91.76 1.75** 86.24 44.38 0.85 38.99 28.66 0.55 39.75 . . . 39.68 0.76 48.33 . . 66.04 61.30 1.17 53.73 38.48 0.73 62.08 38.58 0.74 46.56	MORTALITY RATE RELATIVE RATE MORTALITY RELATIVE RATE RELATIVE RATE 52.48 1.00 52.37 1.00 49.13 0.94 61.61 1.18 91.76 1.75** 86.24 1.65** 44.38 0.85 38.99 0.74 28.66 0.55 39.75 0.76 39.68 0.76 48.33 0.92 . . 66.04 1.26 61.30 1.17 53.73 1.03 38.48 0.73 62.08 1.19 38.58 0.74 46.56 0.89	MORTALITY RATE RELATIVE RATE MORTALITY RELATIVE RATE MORTALITY RATE <th< td=""></th<>		

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

LOS ANGELES COUNTY

Map 18: Cities with Mortality Rates Significantly Different from the State Rate for Stroke by Gender in Los Angeles County, 1989-1991



LOS ANGELES COUNTY

TABLE 45: STROKE DEATHS BY CITY FOR LOS ANGELES COUNTY, 1989-1991

	M A	L E PERCENT OF	F E M	A L E PERCENT OF	T O	T A L PERCENT OF
PLACE	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS
CALIFORNIA	18,389	5.4	28,227	9.2	46,616	7.2
Los Angeles County						
Agoura Hills	6	5.9	7	8.6	13	7.1
Alhambra	67	7.8	112	9.9	179	9.0
Altadena	25	6.3	49	11.0	74	8.8
Arcadia	54	7.4	83	10.2	137	8.9
Azusa	20	4.3	23	6.0	43	5.1
Baldwin Park	38	7.1	28	6.2	66	6.7
Bell	29	4.3	41	7.0	70	5.5
Bellflower	39	5.1	63	7.9	102	6.5
Beverly Hills	39	7.4	64	10.8	103	9.2
Burbank	63	4.9	111	8.9	174	6.9
Carson	38	4.1	76	10.8	114	7.0
Cerritos	33	6.8	34	8.5	67	7.6
Claremont	22	6.9	52	12.2	74	9.9
Compton	50	3.3	100	9.0	150	5.7
Covina	40	5.6	71	9.5	111	7.6
Culver City	33	6.0	46	8.4	79	7.2
Diamond Bar	12	2.9	33	9.2	45	5.9
Downey	65	5.5	71	6.7	136	6.1
Duarte	10	3.9	28	7.8	38	6.2
El Monte	45	4.2	68	7.4	113	5.7
Gardena	55	5.9	81	10.9	136	8.1
Glendale	156	6.8	234	8.9	390	7.9
Glendora	23	4.2	47	7.7	70	6.0
Hacienda Heights	19	4.3	38	11.4	57	7.4
Hawethorne	44	5.3	57	8.8	101	6.8
Huntington Park	31	5.6	55	11.5	86	8.3
Inglewood	49	3.8	90	7.8	139	5.7
Lakewood	36	4.0	60	7.7	96	5.7
La Mirada	20	4.5	43	10.3	63	7.4
Lancaster	51	4.1	70	6.2	121	5.1

(Continued)

LOS ANGELES COUNTY

TABLE 45 (CONTINUED): STROKE DEATHS BY CITY FOR LOS ANGELES COUNTY, 1989-1991

PLACE NUMBER ALL E F E NUMBER NUMBER ALL DEATHS ALL DEATHS NUMBER ALL DEATHS ALL								
CALIFORNIA 18,389 5.4 28,227 9.2 46,616 7.2 Los Angeles County La Puente 44 5.1 38 5.8 82 5.4 La Verne 23 6.7 40 10.9 63 8.9 Lawndale 17 6.2 19 8.8 36 7.3 Long Beach 317 5.2 503 8.9 820 7.0 Los Angeles 2,272 5.0 3,418 8.7 5,690 6.7 Lynwood 26 4.6 41 9.0 67 6.6 Manhattan Beach 17 6.5 25 8.8 42 7.7 Maywood 9 4.8 12 7.3 21 5.9 Monrovia 26 6.2 45 10.3 71 8.3 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 <td< th=""><th></th><th>PLACE</th><th></th><th>PERCENT OF</th><th></th><th>PERCENT OF</th><th></th><th>PERCENT OF</th></td<>		PLACE		PERCENT OF		PERCENT OF		PERCENT OF
La Puente 44 5.1 38 5.8 82 5.4 La Verne 23 6.7 40 10.9 63 8.9 Lawndale 17 6.2 19 8.8 36 7.3 Long Beach 317 5.2 503 8.9 820 7.0 Los Angeles 2,272 5.0 3,418 8.7 5,690 6.7 Lynwood 26 4.6 41 9.0 67 6.6 Manhattan Beach 17 6.5 25 8.8 42 7.7 Maywood 9 4.8 12 7.3 21 5.9 Monrovia 26 6.2 45 10.3 71 8.3 Montebello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6								
La Puente 44 5.1 38 5.8 82 5.4 La Verne 23 6.7 40 10.9 63 8.9 Lawndale 17 6.2 19 8.8 36 7.3 Long Beach 317 5.2 503 8.9 820 7.0 Los Angeles 2,272 5.0 3,418 8.7 5,690 6.7 Lynwood 26 4.6 41 9.0 67 6.6 Manhattan Beach 17 6.5 25 8.8 42 7.7 Maywood 9 4.8 12 7.3 21 5.9 Monrovia 26 6.2 45 10.3 71 8.3 Montebello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6	Los Ang	geles County						
Lawndale 17 6.2 19 8.8 36 7.3 Long Beach 317 5.2 503 8.9 820 7.0 Los Angeles 2,272 5.0 3,418 8.7 5,690 6.7 Lynwood 26 4.6 41 9.0 67 6.6 Manhattan Beach 17 6.5 25 8.8 42 7.7 Maywood 9 4.8 12 7.3 21 5.9 Monrovia 26 6.2 45 10.3 71 8.3 Monteello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 50 Paramount 19 4.0 24 6.5 43 5.1		La Puente	44	5.1	38	5.8	82	5.4
Long Beach 317 5.2 503 8.9 820 7.0 Los Angeles 2,272 5.0 3,418 8.7 5,690 6.7 Lynwood 26 4.6 41 9.0 67 6.6 Manhattan Beach 17 6.5 25 8.8 42 7.7 Maywood 9 4.8 12 7.3 21 5.9 Monrovia 26 6.2 45 10.3 71 8.3 Montebello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 <		La Verne	23	6.7	40	10.9	63	8.9
Los Angeles 2,272 5.0 3,418 8.7 5,690 6.7 Lynwood 26 4.6 41 9.0 67 6.6 Manhattan Beach 17 6.5 25 8.8 42 7.7 Maywood 9 4.8 12 7.3 21 5.9 Monrovia 26 6.2 45 10.3 71 8.3 Montebello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		Lawndale	17	6.2	19	8.8	36	7.3
Lynwood 26 4.6 41 9.0 67 6.6 Manhattan Beach 17 6.5 25 8.8 42 7.7 Maywood 9 4.8 12 7.3 21 5.9 Monrovia 26 6.2 45 10.3 71 8.3 Montebello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		Long Beach	317	5.2	503	8.9	820	7.0
Manhattan Beach 17 6.5 25 8.8 42 7.7 Maywood 9 4.8 12 7.3 21 5.9 Monrovia 26 6.2 45 10.3 71 8.3 Montebello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 <td></td> <td>Los Angeles</td> <td>2,272</td> <td>5.0</td> <td>3,418</td> <td>8.7</td> <td>5,690</td> <td>6.7</td>		Los Angeles	2,272	5.0	3,418	8.7	5,690	6.7
Maywood 9 4.8 12 7.3 21 5.9 Monrovia 26 6.2 45 10.3 71 8.3 Montebello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 <		Lynwood	26	4.6	41	9.0	67	6.6
Monrovia 26 6.2 45 10.3 71 8.3 Montebello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4		Manhattan Beach	17	6.5	25	8.8	42	7.7
Montebello 35 5.2 50 8.1 85 6.6 Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 <td></td> <td>Maywood</td> <td>9</td> <td>4.8</td> <td>12</td> <td>7.3</td> <td>21</td> <td>5.9</td>		Maywood	9	4.8	12	7.3	21	5.9
Monterey Park 39 6.1 41 7.2 80 6.6 Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 <td></td> <td>Monrovia</td> <td>26</td> <td>6.2</td> <td>45</td> <td>10.3</td> <td>71</td> <td>8.3</td>		Monrovia	26	6.2	45	10.3	71	8.3
Norwalk 45 4.7 70 8.0 115 6.3 Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7		Montebello	35	5.2	50	8.1	85	6.6
Palmdale 26 3.8 35 6.5 61 5.0 Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9		Monterey Park	39	6.1	41	7.2	80	6.6
Paramount 19 4.0 24 6.5 43 5.1 Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275		Norwalk	45	4.7	70	8.0	115	6.3
Pasadena 115 6.4 209 9.8 324 8.3 Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98		Palmdale	26	3.8	35	6.5	61	5.0
Pico Rivera 27 4.3 47 8.7 74 6.3 Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55		Paramount	19	4.0	24	6.5	43	5.1
Pomona 46 3.5 95 8.0 141 5.7 Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55		Pasadena	115	6.4	209	9.8	324	8.3
Rancho Palos Verdes 27 4.7 67 11.1 94 8.0 Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		Pico Rivera	27	4.3	47	8.7	74	6.3
Redondo Beach 121 5.3 223 10.0 344 7.6 Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		Pomona	46	3.5	95	8.0	141	5.7
Rosemead 33 5.2 44 7.6 77 6.4 Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		Rancho Palos Verde	es 27	4.7	67	11.1	94	8.0
Rowland Heights 12 4.5 14 6.3 26 5.3 San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		Redondo Beach	121	5.3	223	10.0	344	7.6
San Dimas 10 3.0 23 6.9 33 5.0 San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		Rosemead	33	5.2	44	7.6	77	6.4
San Fernando 18 6.1 19 7.4 37 6.7 San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		Rowland Heights	12	4.5	14	6.3	26	5.3
San Gabriel 39 5.8 68 10.0 107 7.9 Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		San Dimas	10	3.0	23	6.9	33	5.0
Santa Monica 91 7.0 184 11.4 275 9.4 South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		San Fernando	18	6.1	19	7.4	37	6.7
South Gate 41 5.0 57 8.0 98 6.4 South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		San Gabriel	39	5.8	68	10.0	107	7.9
South Pasadena 17 7.2 38 13.5 55 10.6 Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		Santa Monica	91	7.0	184	11.4	275	9.4
Temple City 18 4.6 37 8.4 55 6.7 West Covina 55 5.8 59 7.5 114 6.6		South Gate	41	5.0	57	8.0	98	6.4
West Covina 55 5.8 59 7.5 114 6.6		South Pasadena	17	7.2	38	13.5	55	10.6
West Covina 55 5.8 59 7.5 114 6.6		Temple City	18	4.6	37	8.4	55	6.7
Whittier 106 5.9 147 8.5 253 7.1		West Covina	55	5.8	59	7.5	114	6.6
		Whittier	106	5.9	147	8.5	253	7.1

LOS ANGELES COUNTY

TABLE 46: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR STROKE BY CITY FOR LOS ANGELES COUNTY, 1989-1991

PLACE	M A MORTALITY RATE	L E RELATIVE RATE	F E M MORTALITY RATE	A L E RELATIVE RATE	T O T MORTALITY RATE	A L RELATIVE RATE
CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00
Angeles County						
Agoura Hills						
Alhambra	54.28	1.03	48.76	0.93	50.89	0.96
Altadena	44.31	0.84	55.51	1.06	51.63	0.98
Arcadia	53.94	1.03	45.58	0.87	48.71	0.92
Azusa	49.36	0.94	39.69	0.76	41.98	0.80
Baldwin Park	62.12	1.18	34.93	0.67	47.26	0.90
Bell	42.00	0.80	40.53	0.77	41.31	0.78
Bellflower	53.26	1.01	54.46	1.04	54.41	1.03
Beverly Hills	34.04	0.65	39.57	0.76	37.23	0.71
Burbank	42.42	0.81	47.41	0.91	44.90	0.85
Carson	47.73	0.91	76.14	1.45	64.70	1.23
Cerritos	59.77	1.14	34.86	0.67	43.99	0.83
Claremont	47.21	0.90	54.10	1.03	52.33	0.99
Compton			52.54	1.00	39.90	0.76
Covina	66.47	1.27	65.84	1.26	63.92	1.21
Culver City	50.02	0.95	47.47	0.91	49.72	0.94
Diamond Bar			56.39	1.08	42.09	0.80
Downey	53.49	1.02	33.82	0.65*	42.28	0.80
Duarte			38.84	0.74	38.35	0.73
El Monte	46.47	0.89	49.57	0.95	49.45	0.94
Gardena	55.50	1.06	59.23	1.13	57.71	1.09
Glendale	58.29	1.11	45.07	0.86	49.99	0.95
Glendora	43.54	0.83	50.21	0.96	47.76	0.90
Hacienda Heights	34.23	0.65	47.79	0.91	42.19	0.80
Hawethorne	65.69	1.25	53.58	1.02	58.97	1.12
Huntington Park	55.76	1.06	70.83	1.35	65.54	1.24
Inglewood	38.44	0.73	47.11	0.90	45.05	0.85
Lakewood	41.22	0.79	49.27	0.94	46.30	0.88
La Mirada	42.14	0.80	72.08	1.38	59.11	1.12
Lancaster	47.42	0.90	40.31	0.77	52.64	0.81

(Continued)

Notes: Relative rate is ratio of place to statewide rate.

- * Place has significantly lower rate than state rate with an overall significance level of 0.10.
- ** Place has significantly higher rate than state rate with an overall significance evel of 0.10.
- . Insufficient data was available to calculate rate.

LOS ANGELES COUNTY

TABLE 46 (CONTINUED): AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000)
AND RELATIVE RATE FOR STROKE BY CITY FOR LOS ANGELES
COUNTY, 1989-1991

	M A	L E	F E M	A L E	T 0 T	A L	
PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00	
Los Angeles County							
La Puente	53.38	1.02	34.99	0.67	42.95	0.81	
La Verne			48.12	0.92	56.20	1.06	
Lawndale	86.04	1.64	53.89	1.03	65.77	1.25	
Long Beach	60.47	1.15	56.07	1.07	58.19	1.10	
Los Angeles	48.90	0.93	48.54	0.93*	49.05	0.93*	
Lynwood	54.78	1.04	68.98	1.32	64.80	1.23	
Manhattan Beach			62.81	1.20			
Maywood							
Monrovia	63.38	1.21	59.04	1.13	59.17	1.12	
Montebello	36.64	0.70	35.53	0.68	35.69	0.68	
Monterey Park	38.88	0.74	26.18	0.50	31.50	0.60*	
Norwalk	57.67	1.10	53.30	1.02	54.58	1.03	
Palmdale	43.13	0.82	52.39	1.00	47.71	0.90	
Paramount	58.94	1.12	47.36	0.90	50.81	0.96	
Pasadena	50.77	0.97	49.13	0.94	50.10	0.95	
Pico Rivera	36.19	0.69	43.58	0.83	41.78	0.79	
Pomona	45.59	0.87	53.80	1.03	51.69	0.98	
Rancho Palos Verde	es 38.63	0.74	74.83	1.43	59.38	1.13	
Redondo Beach	54.71	1.04	62.55	1.19	60.06	1.14	
Rosemead			24.40	0.47	32.51	0.62	
Rowland Heights							
San Dimas			49.40	0.94	41.93	0.79	
San Fernando	47.69	0.91	41.57	0.79	44.23	0.84	
San Gabriel	45.31	0.86	46.47	0.89	46.50	0.88	
Santa Monica	61.46	1.17	60.08	1.15	61.82	1.17	
South Gate	56.64	1.08	45.73	0.87	49.63	0.94	
South Pasadena	51.01	0.97	61.72	1.18	58.72	1.11	
Temple City	34.64	0.66	43.88	0.84	39.35	0.75	
West Covina	64.65	1.29	43.83	0.84	52.89	1.00	
Whittier	86.41	1.65**	73.05	1.39**	79.29	1.50**	

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

ORANGE COUNTY

TABLE 47: STROKE DEATHS BY CITY FOR ORANGE COUNTY, 1989-1991

M A	. – –	F E M	A L E	T O	T A L	
NII IMDED		NIIIMDED		NILIMIDED	PERCENT OF ALL DEATHS	
18,389	5.4	28,227	9.2	46,616	7.2	
115	4.4	218	8.5	333	6.4	
18	6.2	28	9.8	46	8.0	
34	4.8	49	8.6	83	6.5	
35	4.0	88	10.2	123	7.0	
20	5.6	22	7.0	42	6.3	
8	5.0	6	4.8	14	4.9	
24	6.2	38	10.0	62	8.1	
30	6.7	40	9.3	70	8.0	
62	5.7	101	8.7	163	7.2	
61	4.2	133	8.8	194	6.5	
69	4.5	137	9.1	206	6.8	
26	5.0	47	8.8	73	6.9	
33	5.0	54	9.3	87	7.0	
107	8.0	193	12.4	300	10.4	
31	5.4	42	7.8	73	6.5	
27	5.6	51	11.0	78	8.2	
62	8.2	100	11.5	162	10.0	
53	5.2	91	8.0	144	6.7	
28	7.4	39	11.5	67	9.3	
24	6.0	56	13.7	80	9.9	
no 24	7.3	34	13.1	58	9.9	
105	4.3	171	7.9	276	6.0	
31	5.0	93	10.2	124	8.1	
11	4.1	28	11.4	39	7.6	
25	6.0	30	6.5	55	6.2	
37	4.5	60	8.2	97	6.3	
13	4.0	26	8.8	39	6.3	
	18,389 115 18 34 35 20 8 24 30 62 61 69 26 33 107 31 27 62 53 28 24 105 31 11 25 37	NUMBER ALL DEATHS 18,389 5.4 115 4.4 18 6.2 34 4.8 35 4.0 20 5.6 8 5.0 24 6.2 30 6.7 62 5.7 61 4.2 69 4.5 26 5.0 33 5.0 107 8.0 31 5.4 27 5.6 62 8.2 53 5.2 28 7.4 24 6.0 no 24 7.3 105 4.3 31 5.0 11 4.1 25 6.0 37 4.5	NUMBER PERCENT OF ALL DEATHS NUMBER 18,389 5.4 28,227 115 4.4 218 18 6.2 28 34 4.8 49 35 4.0 88 20 5.6 22 8 5.0 6 24 6.2 38 30 6.7 40 62 5.7 101 61 4.2 133 69 4.5 137 26 5.0 47 33 5.0 54 107 8.0 193 31 5.4 42 27 5.6 51 62 8.2 100 53 5.2 91 28 7.4 39 24 6.0 56 no 24 7.3 34 105 4.3 171 31 5.0	NUMBER PERCENT OF ALL DEATHS NUMBER PERCENT OF ALL DEATHS 18,389 5.4 28,227 9.2 115 4.4 218 8.5 18 6.2 28 9.8 34 4.8 49 8.6 35 4.0 88 10.2 20 5.6 22 7.0 8 5.0 6 4.8 24 6.2 38 10.0 30 6.7 40 9.3 62 5.7 101 8.7 61 4.2 133 8.8 69 4.5 137 9.1 26 5.0 47 8.8 33 5.0 54 9.3 107 8.0 193 12.4 31 5.4 42 7.8 27 5.6 51 11.0 62 8.2 100 11.5 53 5.2	NUMBER PERCENT OF ALL DEATHS NUMBER PERCENT OF ALL DEATHS NUMBER 18,389 5.4 28,227 9.2 46,616 115 4.4 218 8.5 333 18 6.2 28 9.8 46 34 4.8 49 8.6 83 35 4.0 88 10.2 123 20 5.6 22 7.0 42 8 5.0 6 4.8 14 24 6.2 38 10.0 62 30 6.7 40 9.3 70 62 5.7 101 8.7 163 61 4.2 133 8.8 194 69 4.5 137 9.1 206 26 5.0 47 8.8 73 33 5.0 54 9.3 87 107 8.0 193 12.4 300 31	

ORANGE COUNTY

TABLE 48: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR STROKE BY CITY FOR ORANGE COUNTY, 1989-1991

	M A		F E M	A L E	T O T A L	
	MORTALITY	RELATIVE	MORTALITY	RELATIVE	MORTALITY	RELATIVE
PLACE	RATE	RATE	RATE	RATE	RATE	RATE
CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00
ange County						
Anaheim	50.42	0.96	59.06	1.13	56.39	1.07
Brea			44.74	0.85	45.13	0.86
Buena Park	64.71	1.23	51.49	0.98	55.69	1.06
Costa Mesa	37.91	0.72	59.42	1.13	51.97	0.98
Cypress	61.79	1.18	43.03	0.82	46.65	0.88
Dana Point						
El Toro	66.45	1.27	43.81	0.84	52.50	0.99
Fountain Valley	79.05	1.51	54.31	1.04	61.75	1.17
Fullerton	59.50	1.13	52.86	1.01	56.95	1.08
Garden Grove	48.71	0.93	56.78	1.08	53.25	1.01
Huntington Beach	43.49	0.83	54.90	1.05	50.89	0.96
Irvine	38.33	0.73	42.89	0.82	41.29	0.78
Laguna Beach	49.42	0.94	39.24	0.75	41.79	0.79
Laguna Hills	47.11	0.90	41.28	0.79	43.81	0.83
La Habra	88.72	1.69	42.62	0.81	53.83	1.02
Mission Viejo	44.97	0.86	63.96	1.22	56.22	1.07
Newport Beach	52.95	1.01	56.73	1.08	55.53	1.05
Orange	48.23	0.92	45.77	0.87	46.75	0.89
Placentia	103.03	1.96	69.32	1.32	78.59	1.49
San Clemente	34.95	0.67	73.52	1.40	59.85	1.13
San Juan Capistrano	69.84	1.33	52.29	1.00	59.68	1.13
Santa Ana	49.83	0.95	48.65	0.93	49.01	0.93
Seal Beach			42.80	0.82	42.99	0.81
Stanton			59.90	1.14	60.11	1.14
Tustin	73.52	1.40	35.56	0.68	45.44	0.86
Westminster	44.79	0.85	50.66	0.97	48.72	0.92
Yorba Linda			65.45	1.25	56.45	1.07

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

SOUTHEAST COUNTIES

Map 19: Cities with Mortality Rates Significantly Different from the State RATE FOR STROKE BY GENDER IN SOUTHEAST COUNTIES, 1989 -1991 Mono Inyo San Bernadino Redlands Riverside Riverside O Palm Desert MORTALITY RATES SIGNIFICANTLY HIGHER THAN LOWER THAN THE STATE RATE THE STATE RATE MALE AND FEMALE △ MALE AND FEMALE FEMALE FEMALE MALE MALE

SOUTHEAST COUNTIES

TABLE 49: STROKE DEATHS BY CITY FOR RIVERSIDE AND SAN BERNARDING COUNTIES, 1989-1991

		M A	L E PERCENT OF	F E M	A L E PERCENT OF	T O	T A L PERCENT OF	
	PLACE	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS	NUMBER	ALL DEATHS	
	CALIFORNIA	18,389	5.4	28,227	9.2	46,616	7.2	
Riversid	e County							
	Banning	18	4.2	35	8.0	53	6.2	
	Cathedral City	24	5.9	26	9.5	50	7.3	
	Corona	42	5.4	54	9.6	96	7.2	
	Hemet	155	6.7	196	10.1	351	8.3	
	Indio	12	2.7	24	7.3	36	4.7	
	Moreno Valley	19	4.0	31	7.1	50	5.5	
	Norco	9	5.1	9	5.6	18	5.3	
	Palm Desert	39	6.6	36	8.3	75	7.3	
	Palm Springs	50	5.0	75	9.9	125	7.1	
	Perris	32	5.3	32	6.7	64	5.9	
	Riverside	177	5.8	271	9.3	448	7.5	
	Rubidoux	0	0.0	1	2.2	1	1.3	
	Temecula	7	3.3	13	9.6	20	5.8	
San Beri	nardino County							
	Apple Valley	32	5.6	35	7.1	67	6.3	
	Barstow	16	4.1	24	7.4	40	5.6	
	Chino	33	4.8	30	6.4	63	5.4	
	Colton	31	5.6	38	8.4	69	6.9	
	Fontana	38	3.7	67	7.7	105	5.6	
	Hesperia	39	5.8	34	6.6	73	6.1	
	Montclair	14	4.7	17	7.0	31	5.7	
	Ontario	56	4.6	81	7.9	137	6.1	
	Rancho Cucamong	a 22	5.7	30	9.7	52	7.4	
	Redlands	67	7.6	111	10.7	178	9.3	
	Rialto	55	5.6	64	7.6	119	6.5	
	San Bernardino	150	5.1	214	8.2	364	6.6	
	Upland	43	6.8	70	11.0	113	8.9	
	Victorville	28	4.2	43	8.0	71	5.9	
	Yucaipa	66	8.4	119	14.7	185	11.6	

SOUTHEAST COUNTIES

Table 50: Age- and Race-Adjusted Mortality Rate (per 100,000) and Relative Rate For Stroke by City for Riverside and San Bernardino Counties, 1989-1991

		M A	L E	F E M	E M A L E		TOTAL	
	PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	
	CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00	
Riversia	de County							
	Banning	36.10	0.69	52.75	1.01	46.24	0.88	
	Cathedral City	71.98	1.37	49.77	0.95	58.03	1.10	
	Corona	72.33	1.38	54.77	1.05	61.24	1.16	
	Hemet	45.53	0.87	45.66	0.87	45.42	0.86	
	Indio			40.84	0.78	33.06	0.63	
	Moreno Valley	38.98	0.74	40.71	0.78	39.29	0.74	
	Norco					50.07	0.95	
	Palm Desert			26.75	0.51*	40.38	0.77	
	Palm Springs	34.76	0.66	39.16	0.75	37.43	0.71	
	Perris	65.31	1.24	50.53	0.96	56.70	1.07	
	Riverside	73.58	1.40**	68.87	1.32**	70.58	1.33**	
	Rubidoux							
	Temecula							
San Bei	rnardino County							
	Apple Valley	49.16	0.94	48.63	0.93	49.59	0.94	
	Barstow	52.94	1.01	57.19	1.09	56.19	1.06	
	Chino	52.75	1.01	38.40	0.73	44.20	0.84	
	Colton	66.78	1.27	62.09	1.19	63.53	1.20	
	Fontana	48.17	0.92	61.49	1.17	55.78	1.06	
	Hesperia	63.67	1.21	46.97	0.90	56.62	1.07	
	Montclair	54.36	1.04	58.46	1.12	57.20	1.08	
	Ontario	54.69	1.04	52.60	1.00	52.72	1.00	
	Rancho Cucamonga	34.65	0.66	37.89	0.72	36.97	0.70	
	Redlands	83.76	1.60**	72.25	1.38	77.26	1.46**	
	Rialto	73.86	1.41	51.99	0.99	60.89	1.15	
	San Bernardino	58.18	1.11	52.79	1.01	55.25	1.05	
	Upland	68.93	1.31	69.26	1.32	67.76	1.28	
					4.00		0.07	
	Victorville	46.23	0.88	53.62	1.02	50.99	0.97	

Notes: Relative rate is ratio of place to statewide rate.

^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

SAN DIEGO AND IMPERIAL COUNTIES

TABLE 51: STROKE DEATHS BY CITY FOR SAN DIEGO AND IMPERIAL COUNTIES, 1989-1991

PLACE	M A	A L E PERCENT OF ALL DEATHS	F E N	A L E PERCENT OF ALL DEATHS	T O	T A L PERCENT OF ALL DEATHS	
CALIFORNIA	18,389	5.4	28,227	9.2	46,616	7.2	
Imperial County							
El Centro	25	5.8	25	8.4	50	6.9	
San Diego County							
Carlsbad	34	5.5	48	8.5	82	6.9	
Chula Vista	73	4.4	120	7.5	193	6.0	
Coronado	15	6.4	31	10.7	46	8.8	
El Cajon	96	6.0	170	10.3	266	8.2	
Encinitas	26	5.5	43	9.1	69	7.3	
Escondido	83	5.2	172	11.1	255	8.1	
Fallbrook	22	5.9	35	8.2	57	7.1	
Imperial Beach	9	3.9	10	5.7	19	4.7	
Lakeside	13	3.4	40	12.6	53	7.5	
La Mesa	91	6.0	159	10.0	250	8.0	
Lemon Grove	19	5.6	39	10.1	58	8.0	
National City	35	6.3	46	8.5	81	7.4	
Oceanside	79	4.9	88	7.1	167	5.9	
Poway	14	4.4	28	9.0	42	6.7	
San Diego	636	5.3	1,076	10.1	1,712	7.6	
San Marcos	32	5.1	44	8.6	76	6.7	
Santee	31	6.2	41	9.2	72	7.6	
Vista	50	5.4	76	8.5	126	6.9	

SAN DIEGO AND IMPERIAL COUNTIES

TABLE 52: AGE- AND RACE-ADJUSTED MORTALITY RATE (PER 100,000) AND RELATIVE RATE FOR STROKE BY CITY FOR SAN DIEGO AND IMPERIAL COUNTIES, 1989-1991

	MALE		FEMALE		TOTAL	
PLACE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
CALIFORNIA	52.48	1.00	52.37	1.00	52.78	1.00
Imperial County						
El Centro	76.00	1.45	43.92	0.84	54.62	1.04
San Diego County						
Carlsbad	46.39	0.88	43.66	0.83	45.54	0.86
Chula Vista	42.14	0.80	42.54	0.81	42.87	0.81
Coronado	36.24	0.69	63.47	1.21		
El Cajon	63.37	1.21	62.45	1.19	62.59	1.19
Encinitas	59.08	1.13	41.72	0.80	47.71	0.90
Escondido	39.68	0.76	63.52	1.21	54.14	1.03
Fallbrook	44.21	0.84	54.31	1.04	50.12	0.95
Imperial Beach						
Lakeside						
La Mesa	70.44	1.34	58.04	1.11	59.20	1.12
Lemon Grove	53.30	1.02	60.89	1.16	57.58	1.09
National City	63.56	1.21	47.87	0.91	54.69	1.04
Oceanside	46.39	0.88	40.38	0.77	43.07	0.82
Poway			56.30	1.08	51.27	0.97
San Diego	49.00	0.93	53.81	1.03	52.26	0.99
San Marcos	39.70	0.76			38.00	0.72
Santee	62.98	1.20	53.62	1.02	59.27	1.12
Vista	41.91	0.80	39.72	0.76	41.26	0.78

Notes: Relative rate is ratio of place to statewide rate.

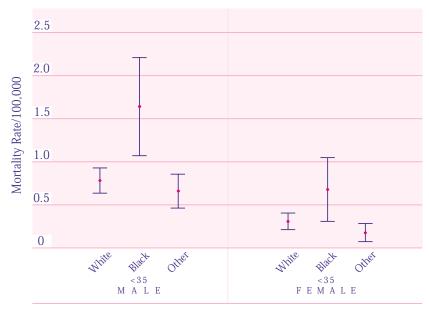
^{*} Place has significantly lower rate than state rate with an overall significance level of 0.10.

^{**} Place has significantly higher rate than state rate with an overall significance evel of 0.10.

[.] Insufficient data was available to calculate rate.

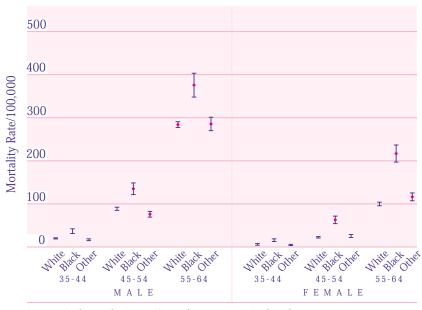
95% CONFIDENCE INTERVALS FOR THE STATEWIDE MORTALITY RATES

FIGURE 1: 95% CONFIDENCE INTERVALS FOR THE AGE- (<35 YEARS) AND RACE-SPECIFIC MORTALITY RATES FOR IHD, CALIFORNIA, 1989-1991



Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program California Department of Health Services and University of California, San Francisco

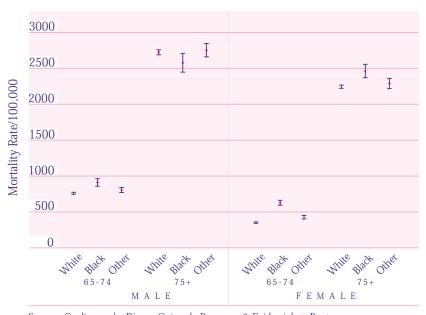
FIGURE 2: 95% CONFIDENCE INTERVALS FOR THE AGE- (35-64 YEARS) AND RACE-SPECIFIC MORTALITY RATES FOR IHD, CALIFORNIA, 1989-1991



Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program
California Department of Health Services and University of California, San Francisco

95% CONFIDENCE INTERVALS FOR THE STATEWIDE MORTALITY RATES

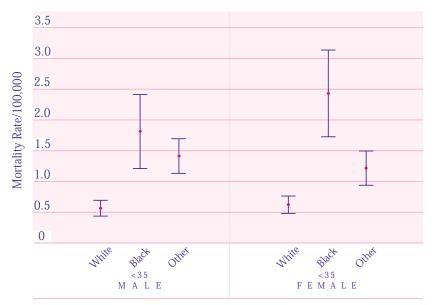
FIGURE 3: 95% CONFIDENCE INTERVALS FOR THE AGE- (65+ YEARS) AND RACE-SPECIFIC MORTALITY RATES FOR IHD, CALIFORNIA, 1989-1991



Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program California Department of Health Services and University of California, San Francisco

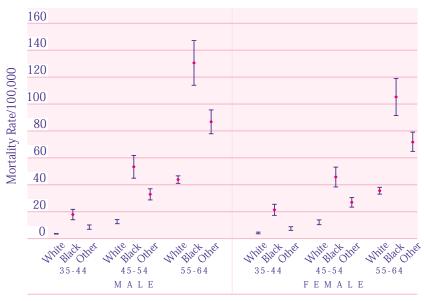
95% CONFIDENCE INTERVALS FOR THE STATEWIDE MORTALITY RATES

FIGURE 4: 95% CONFIDENCE INTERVALS FOR THE AGE- (<35 YEARS) AND RACE-SPECIFIC MORTALITY RATES FOR STROKE, CALIFORNIA, 1989-1991



Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program
California Department of Health Services and University of California, San Francisco

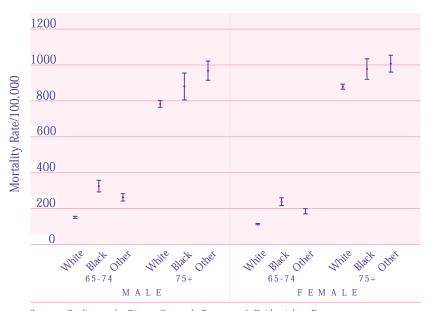
FIGURE 5: 95% CONFIDENCE INTERVALS FOR THE AGE- (35-64 YEARS) AND RACE-SPECIFIC MORTALITY RATES FOR STROKE, CALIFORNIA, 1989-1991



Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program California Department of Health Services and University of California, San Francisco

95% CONFIDENCE INTERVALS FOR THE STATEWIDE MORTALITY RATES

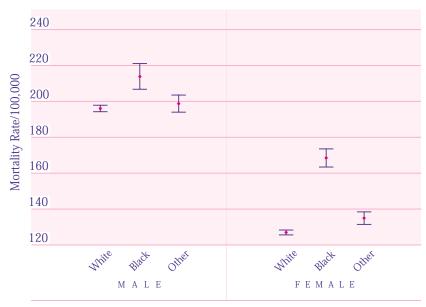
FIGURE 6: 95% CONFIDENCE INTERVALS FOR THE AGE- (65+ YEARS) AND RACE-SPECIFIC MORTALITY RATES FOR STROKE, CALIFORNIA, 1989-1991



Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program California Department of Health Services and University of California, San Francisco

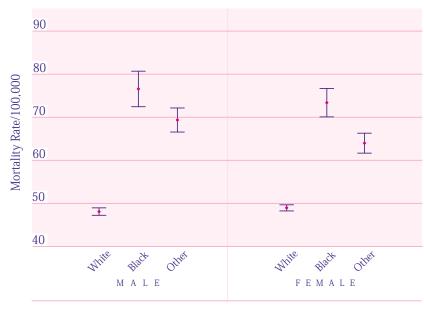
95% CONFIDENCE INTERVALS FOR THE STATEWIDE MORTALITY RATES

FIGURE 7: 95% CONFIDENCE INTERVALS FOR THE AGE-ADJUSTED MORTALITY RATES FOR IHD, BY RACE AND SEX, CALIFORNIA, 1989-1991



Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program
California Department of Health Services and University of California, San Francisco

FIGURE 8: 95% CONFIDENCE INTERVALS FOR THE AGE-ADJUSTED MORTALITY RATES FOR STROKE, BY RACE AND SEX, CALIFORNIA, 1989-1991



Source: Cardiovascular Disease Outreach, Resources & Epidemiology Program
California Department of Health Services and University of California, San Francisco

Appendix B

TECHNICAL NOTES

RATES

One of the most frequent interests in epidemiology is the comparison of the rates for some event or characteristic across different populations. An unadjusted rate, usually referred to as a crude rate or an overall rate, is obtained by dividing the total number of events of interest, say deaths, by the total population at risk. A crude rate is usually expressed on a convenient base of 100,000. For example, in 1990, there were 46,284 IHD deaths in California among the population of 29,760,021. The crude 1990 IHD mortality rate was 46,284/29,760,021 = 155.5 per 100,000. The stratum-specific rates are rates presented for individuals with certain characteristics in specific strata, such as different age and race/ethnic subgroups, divided by the total number of persons in the corresponding strata. For instance, there were 10,633 stroke deaths in 1990 among the California population, of persons who were 75 years of age or older, of 1,256,442. The age-specific 1990 stroke mortality rate was 10,633/1,256,442 = 846.3 per 100,000.

If the populations being compared were similar with respect to factors associated with the event under study, factors such as age, sex, race, or some socio-economic factors, there would be no problem in comparing the crude rates as they stand. However, if the study populations are not similarly constituted, the direct comparison of the crude rates would be misleading. For example, cities with a large component of elderly may have a higher death rate simply because the risk of dying is so strongly influenced by age. This effect of different compositions among cities can be removed by the procedure of "age-adjustment."

The direct method is used to adjust the rates in this report. It is derived by applying the stratumspecific rates observed in each of the populations, say cities, to a single "standard" or "reference" population. The age-adjusted rate is obtained by multiplying the age-specific rates by the corresponding stratum-specific proportions of the standard population and then summing the apportioned specific rates. The adjusted rate is also referred to as the standardized rate.

Adjusted rates allow us to put different populations on the same footing with respect to the effect of different compositions among populations. This single summary index for a population is more easily compared with other summary indices than are long lists of stratum-specific rates. However, the adjusted rates should be used with caution, since selecting different stratum cut-offs for constructing strata, say age-stratum, would result in different numerical values of adjusted rates.

Note that strata can be constructed by more than one factor, say age and race, to adjust for these factors simultaneously. In this report, the age- and race-adjusted mortality rates were calculated for each city and place with population sizes of 20,000 or more. The 1990 California population was chosen to be the standard population in this report. The six age categories are 0-34,35-44, 45-54, 55-64, 65-74, and 75+. Three race/ethnic groups were considered, white, black and other with age strata of younger than 65 years old. In this report, considering the statistical reliability of the age and race mortality rates by gender and city, race/ethnicity were collapsed into two groups, white and non-white, for age strata of 65-74 and 75+.

Appendix B

TECHNICAL NOTES

STATISTICAL ISSUES

There are 245 cities in California with population sizes of 20,000 or more in 1990 for which zip code boundaries could be determined. Therefore, the city:state ratio test would be performed 245 times for each gender subgroup. In this case, using single step Bonferroni procedure to control the type I error rate at 0.05 significance level would be too conservative. Thus, a step-down Bonferroni type of procedure based on p-values was implemented for this large number of comparisons, at 0.10 significance level, within each gender subgroup (4).

The relative standard error of an estimate, say age- and race-adjusted mortality rate, is obtained by dividing the standard error of the estimate by the estimate itself. In other words, the relative standard error measures the spread, or the reliability, of the estimate relative to the estimate itself. If the relative standard error is greater than 0.30 or if the number of total IHD or stroke deaths is less than thirty, then we say the estimate is not statistically reliable. In this report, we state "insufficient data was available."

PLACES AND CITIES EXAMINED IN THE REPORT

There are several reasons why we use census place codes for death counts of cities, and zip codes for population sizes of cities. Whereas the boundaries used by the Census Bureau for determining populations are very precise, the city of residence indicated on a death certificate from the same areas may have broader boundaries. A typical problem occurs for persons who live in an unincorporated area outside a city that uses that city's name for receiving mail. Such persons will be counted as a city resident on a death certificate, but will not have been included in the city's population by the Census Bureau. In such case,

using census place codes to define cities for the population data tends to underestimate the population sizes for those cities, and therefore overestimate the mortality rates. However, for the death records, only about 50 percent of deaths had zip codes available from the statistical master tapes of the California Department of Health Services. Thus, census place codes were used to define city boundaries for the estimate of the death counts.

All cities and places used in the rate tables along with their accompanying census place and zip codes are listed on the following pages.

CITY	PLACECODE	ZIPCODES	INCLUDED PLACES	CITY Walnut Creek	PLACECODE 3030	ZIPCODES 94595-96	INCLUDED PLACES
Alameda County	<i>/:</i>			Walliat Grook	0000	94598	
Alameda	0010	94501					
Berkeley	0245	94702-05 94707-10 94720	Kensington Univ. of California	El Dorado County South Lake Tah		2737	96150
Castro Valley	0455	94546,52		France Country			
Dublin	0802	94568		Fresno County: Clovis	0550	93611-12	
Fremont	1080	94536-39 94555		Fresno	1090	93701-06	Calwa
Hayward	1225	94541-45				93710-11 93721-22	
Livermore	1570	94550				93725-28	
Newark	1900	94560					
Oakland	1970	94601-03	Emeryville, Piedmont	Humboldt Count	y:		
		94605-13 94618-21 94625-27 94649	•	Eureka Imperial County:	0945	95501,03	
Pleasanton	2215	94566,86 94588		El Centro	0855	92243	
San Leandro	2525	94577-79		Kern County:			
Union City	2985	94587		Bakersfield	0180	93301,04	Greenacres, Lamont
						93305-07	Rosedale,
Butte County: Chico	0500	95926,28	Chico-North, Chico-West			93309,11 93312-13	Weedpatch
		95973				93241	
Paradise	2100	95969		Delano	0725	93215	
				Oildale	1992	93308	
Contra Costa Co Antioch	ounty: 0085	94509		Ridgecrest	2335	93555	
Concord	0595	94518-20		Kings County:			
Danville	0706	94506,26	Blackhawk	Hanford	1200	93230	
El Cerrito	0860	94530					
Lafayette	1415	94549		Los Angeles Cou	ntv·		
Martinez	1710	94553	Pacheco	Agoura Hills	0007	91301	
Pittsburg	2175	94565	West Pittsburg	Alhambra	0025	91801	
Pleasant Hill	2210	94523	J			91803	
Richmond	2330	94801-06	El Sobrante,	Altadena	0040	91001	
			San Pablo	Arcadia	0105	91006-7	
San Ramon	2567	94583		Azusa	0175	91702	
				Baldwin Park	0185	91706	Irwindale

CITY	PLACECODE	ZIPCODES	INCLUDED PLACES	CITY	PLACECODE	ZIPCODES	INCLUDED PLACES
Bell	0210	90201	Bell Gardens,	Los Angeles	1630	90002-49	E. Los Angeles,
			Cudahy			90057	View Park Windsor Hills,
Bellflower	0215	90706				90061-69	West Hollywood
Beverly Hills	0250	90210-12				90071,77	•
Burbank	0340	91501-6 91523				90089,94 90272 90291-93	
Carson	0440	90745-47				90710	
Cerritos	0487	90701	Artesia			90731-32 90744	
Claremont	0535	91711				91040,42	
Compton	0590	90220-22 90059	Willowbrook			91303-07 91311,16	
Covina	0635	91722-24	Charter Oak			91324-26 91330-31	
Culver City	0665	90230,32				91335	
Diamond Bar	0771	91765 91789	Walnut			91342-45 91352,56	
Downey	0795	90240-42				91364,67 91401-06	
Duarte	0800	91010	Bradbury			91411,23	
El Monte	0880	91731-33	S. El Monte			91436 91601-08	
Gardena	1105	90247-49		Lynwood	1660	90262	
Glendale	1130	91201-08	La Crescenta, Montrose	Manhattan Beach	1690	90266	
		91210 91214		Maywood	1730	90270	
		91214		Monrovia	1800	91016	
Glendora	1135	91740		Montebello	1820	90640	
Hacienda				Monterey Park	1830	91754	
Heights	1188	91745		Norwalk	1950	90650	
Hawthorne	1220	90250		Palmdale	2072	93550-51	
Huntington	1205	00255	Websit Dads	· amidais	2072	93591	
Park	1305	90255	Walnut Park	Paramount	2115	90723	
Inglewood	1340	90301-05	Lennox	Pasadena	2125	91101-07	
Lakewood	1455	90712-13 90715				91125-26	
La Mirada	1462	90638		Pico Rivera	2145	90660	
Lancaster	1476	93534-36	Quartz Hill	Pomona	2230	91766-68	
La Puente	1480	91744,46	Industry, Valinda	Rancho Palos	2204	00070	Dalas Vandas
La Verne	1500	91750	· ·	Verdes	2284	90279	Palos Verdes Estates,
Lawndale	1505	90260					Rolling Hills,
Long Beach	1610	90802-08	Signal Hill				Rolling Hills Estates
J		90810 90813-15		Redondo Beach		90277-78 90501-05	Torrance
		90822,31 90840,46		Rosemead	2400	91770	S. San Gabriel
		70040,40		Rowland Heights	2412	91748	

CITY	PLACECODE	ZIPCODES	INCLUDED PLACES	CITY	PLACECODE	ZIPCODES	INCLUDED PLACES
San Dimas	2477	91773		Huntington			
San Fernando	2480	91340		Beach	1300	92646-49	
San Gabriel	2490	91775-76		Irvine	1347	92714-20	
Santa Monica	2600	90401-05		Laguna Beach	1420	92651,56 92677	Aliso Viejo, Laguna Niguel
South Gate	2730	90280		Laguna Hills	1423	92653	
South Pasadena		91030		La Habra	1428	90631	La Habra Heights
Temple City	2880	91780		Mission Viejo	1786	92691-92	
West Covina	3070	91790-92		Newport Beach	1915	92625	Corona Del Mar
Whittier	3110	91601-05 91609		·		92657-58 92660-63	
Madera County:	1/00	00/07 00		Orange	2015	92665-69	Villa Park
Madera	1680	93637-38		Placentia	2195	92670	
				San Clemente	2470	92672-73	
<i>Marin County:</i> Novato	1955	94945,47 94949		San Juan Capistrano	2519	92675	
Can Dafaal	2545	94949	Marinwood	Santa Ana	2570	92701-07	
San Rafael	2565	94901,03	Marinwood	Seal Beach	2650	90740	
				Stanton	2800	90680	
Merced County: Atwater	0155	95301		Tustin	2965	92680	
Merced	1750	95340		Westminster	3085	92683	
		70010		Yorba Linda	3169	92686-87	
Monterey County	/·						
Monterey	1825	93940		Placer County:			
Salinas	2435	93901		Roseville	2405	95661,78	
		93905-07				95747	
Napa County:				Riverside County		00000	
Napa	1884	94558-59		Banning	0190	92220	
Orange County:	0070	00001 00		Cathedral City	0465	92234	ELO "
Anaheim	0070	92801-08		Corona	0610	91719-20	El Cerrito
Brea	0325	92621		Hemet	1235	92543-45	East Hemet, Valle Vista
Buena Park	0335	90620-21		Indio	1330	92201	Bermuda Dunes
Costa Mesa	0625	92626-27		Moreno Valley	1849	92553,55	Edgemont,
Cypress	0685	90630		Wioreno vaney	1017		Sunnymead
Dana Point	0705	92624,29	E 11.11.D. 1			92557	
El Toro	0903	92610,30 92709	Foothill Ranch, Lake Forest	Norco	1919	91760	
Fountain Valley	1065	92708	Luke Forest	Palm Desert	2080	92260	
Fullerton	1095	92631-35		Palm Springs	2085	92262,64	
Garden Grove	1110	92640-45		Perris	2138	92570-71	
Garden Grove	1110	72070-70		Rubidoux	2414	92509	Glen Avon, Pedley, Sunnyslope

	CITY	PLACECODE	ZIPCODES	INCLUDED PLACES	CITY	PLACECODE	ZIPCODES	INCLUDED PLACES
	Riverside	2370	92501-08	High Grove, Home Gardens, Woodcrest	Yucaipa	3186	92399	
	Temecula	2878	92590-92		San Diego Count Carlsbad	* <i>y:</i> 0405	92008-09	
S	acramento Cou	nty:			Chula Vista	0525	91902	Bonita, Castle Park
	Carmichael	0430	95608				91910-15	
	Citrus Heights	0530	95610,21	Fair Oaks, Orangevale	Caranada	0/15	02110.25	
			95628,62		Coronado	0615	92118,35	
	Folsom	1025	95630,71				92155	
	North Highlands	1935	95660		El Cajon	0850	92019-21	Bostonia,
	Rancho				Encipitos	0000	02024	Harbison Canyon
	Cordova	2277	95670 95741-42		Encinitas	0920	92024 92007	Cardiff by the Sea Leucadia
	Sacramento	2420	95814-20	Rosemont	Escondido	0935	92025-27	Hidden Meadows
			95822-26 95828				92029	
			95831-35 95838,64		Fallbrook	0980	92028	Rainbow
			93030,04		Imperial Beach	1320	91932	
S	an Bernardino (County:			Lakeside	1450	92040	
	Apple Valley	0090	92307-08		La Mesa	1460	91941-42	Casa De Oro,
	Barstow	0195	92311				91977	Mount Helix,
	Chino	0510	91709-10	Chino Hills, Los Serranos				Spring Valley
	Colton	0580	92324	Grand Terrace	Lemon Grove	1510	91945	
	Fontana	1030	92335-36		National City	1885	91950	
	Hesperia	1251	92345					
	Montclair	1815	91763		Oceanside	1990	92054-57	Camp Pendleton
	Ontario	2005	91761-62 91764		Poway	2260	92064	
	Rancho				San Diego	2475	92014,37	Del Mar,
	Cucamonga	2278	91701,30		· ·		92075	Solana Beach
			91737-39				92101-17	
	Redlands	2295	92359 92373-74	Mentone			92119-31 92133-40 92145,54	
	Rialto	2320	92316,76	Bloomington			92161,73	
	San	0.450	00404 44	LP object	San Marcos	2537	92069	
	Bernardino	2450	92401-11	Highland	Santee	2623	92071	
	Unland	2000	92346	Can Antonia	Vista	3017	92083-84	
	Upland	2990	91786	San Antonio Heights	Can Fue d			
	Victorville	3007	92392		San Francisco Co San Francisco	2485	94102-34	

CITY	PLACECODE	ZIPCODES	INCLUDED PLACES	CITY	PLACECODE	ZIPCODES	INCLUDED PLACES
San Joaquin Cou	nty:			Palo Alto	2090	94301-06	East Palo Alto
Lodi	1585	95240,42	Woodbridge	San Jose	2510	95002	Alum Rock
Manteca	1695	95336				95110-41	
Stockton	2805	95201-12 95215,19				95148 95192-93	
Tracy	2915	95376		Santa Clara	2580	95050-54	
				Saratoga	2630	95070	
San Luis Obispo				Sunnyvale	2835	94086-89	
Atascadero	0145	93422		Santa Cruz Coun			
San Luis Obispo	02535	93401,05		Santa Cruz	2585	95060,62	
San Mateo Coun	tu.					95064-65	
Belmont	0225	94002		Watsonville	3055	95076	La Selva Beach
Burlingame	0345	94010	Hillsborough				
Daly City	0700	94014-15	South San	Shasta County:	2290	96001-03	Pine Grove
Francisco				Redding	2290	90001-03	Pille Glove
		94080		Calana Canala			
Foster City	1062	94404		Solano County: Benicia	0235	94510	
Menlo Park	1745	94025	North Fair Oaks,	Fairfield	0960	94533,35	
Millbrae	1760	94030	West Menlo Park	Suisun City	2820	94585	
Pacifica	2060	94030		Vacaville	2995	95687-88	
Redwood City	2305	94044		Vallejo	3000	94589-92	American Canyon
Reawood City	2303	94065					,
San Bruno	2455	94066		Sonoma County:			
San Carlos	2465	94070		Petaluma	2140	94952,54	
San Mateo	2555	94401-03	Highlands	Santa Rosa	2615	95401-09	Cotati, Rohnert Park,
Santa Barbara Co	ountv:			Santa Rosa	2615	94928,31	Roseland,
Lompoc	1600	93436					S. Santa Rosa
Santa Barbara	2575	93101,03					
		93105,09		Stanislaus Count Ceres	<i>y:</i> 0480	95307	
Santa Maria	2595	93454-55		Modesto	1790	95350-58	
				Turlock	2960	95380	
Santa Clara Cour Campbell	<i>nty:</i> 0390	95008		TUTIOCK	2700	73300	
Cupertino	0670	95014	Rancho Rincon Ada	Sutter County:			
Gilroy	1115	95020	Rancho Rincom Ada	Yuba City	3185	95991,93	South Yuba City,
Los Altos	1620	94022,24	Los Altos Hills	, and the second			Tierra Buena
Los Gatos	1640	95030-32	Monte Sereno				
Milpitas	1770	95035	3110 0010110				
Morgan Hill	1850	95037					
Mountain View		94040-43					

CITY	PLACECODE	ZIPCODES	INCLUDED PLACES
Tulare County:			
Porterville	2245	93257	Poplar-Cotton Center
Tulare	2945	93274	Woodville
Visalia	3015	93277,91	
Ventura County:			
Camarillo	0379	93010,12	
Moorpark	1840	93021	
Oxnard	2050	93030,33	
		93035	
Port Hueneme	2250	93041-43	
San			
Buenaventura	2460	93001,03 93004,09	
Santa Paula	2605	93060	
Simi Valley	2702	93063,65	
Thousand Oaks	2897	91320,60 91361-62	Westlake Village
Yolo County:			
Davis	0715	95616	
West			
Sacramento	3098	95605,91	Broderick, Bryte
Woodland	3150	95695 95776	

Appendix D

MAPS OF CALIFORNIA COUNTIES

Map 20: Counties of Northern California



Appendix D

MAPS OF CALIFORNIA COUNTIES

Map 21: Counties of Southern California



References

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